

Special Issue

Coatings and Thin Films as Functional and Protective Structures in Food Technology and Their Possibilities in Packaging Applications

Message from the Guest Editors

Natural substances such as plant extracts, bacterial metabolites or even bacteria themselves are less invasive alternatives to chemicals related to the protection and preservation of food and maintaining its safety. Natural substances are usually safe for contact with food, and they can increase the nutritional value of food products as well as affect organoleptic properties. Based on current knowledge, it is interesting to use natural coatings and thin (bio)films for food preservation and protection, as well as in the production of packaging. Therefore, this Special Issue will serve as a presentation platform for articles with the following specifications:

- New insight (knowledge, ideas and experimental studies) into natural coatings in food technology;
- Recent discovery of natural substances (e.g., essential oils) in shaping microbiological food safety;
- The latest reports on potential biological coatings and films in the production of packaging;
- Current research on the role of natural coatings in increasing the nutritional value of food products;
- The current status of coatings and biofilms as functional food components.

Guest Editors

Dr. Aleksandra Maria Kocot

Department of Immunology and Food Microbiology, Institute of Animal Reproduction and Food Research, Polish Academy of Sciences in Olsztyn, Tuwima 10, 10-748 Olsztyn, Poland

Dr. Marta Lopez Cabo

CSIC - Instituto de Investigaciones Marinas (IIM), Department of Microbiology and Technology of Marine Products, Vigo, Spain

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

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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

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