Special Issue

Green Polymer Coatings and Films for Food and Health Applications

Message from the Guest Editors

In recent years, there has been a strong research focus on new, 'green' polymers for coating and film applications. These polymers principally include biopolymers (mainly polysaccharides such as cellulose, chitin/chitosan, starch and alginate, as well as proteins) and biobased polymers (mainly bio-polyesters such as polylactide, polyhydroxyalkanoates and polyglycolide). The benefit of using these kinds of polymer is multifaceted:

- They may be used to fabricate edible coatings or films, which are useful for food and pharmaceutical applications;
- They may result in coatings or films that are degradable in the body or natural environment or under certain conditions, suitable for applications such as 'green' packaging, biomedical, drug delivery, etc.;
- Their unique functionality (e.g. antimicrobial activity of chitosan, chemical versatility of polysaccharides, and biocompatibility) may also enhance their applicability in the above-mentioned areas.

Guest Editors

Dr. Fengwei (David) Xie

School of Engineering, Newcastle University, Newcastle upon Tyne NE1 7RU, UK

Dr. Binjia Zhang

Key Laboratory of Environment Correlative Dietology (Ministry of Education), College of Food Science and Technology, Huazhong Agricultural University, Wuhan 430070, China

Deadline for manuscript submissions

closed (31 December 2021)



Coatings

an Open Access Journal by MDPI

Impact Factor 2.9 CiteScore 5.0



mdpi.com/si/52296

Coatings 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 2.9 CiteScore 5.0





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), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

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