coatings

an Open Access Journal by MDPI

IMPACT FACTOR 2.8

CITESCORE 5.4

Green Polymer Coatings and Films for Food and Health Applications

Guest Editors:

Prof. Dr. Fengwei Xie
Nottingham Ningbo China Beacons of Excellence Research and Innovation Institute, University of Nottingham Ningbo China, 211 Xingguang Road, Ningbo 315048, China

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)

Message from the Guest Editors

Dear Colleagues,

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.

mdpi.com/si/52296

Special Issue

coatings

an Open Access Journal by MDPI

IMPACT FACTOR 2.8

CITESCORE 5.4

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

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.

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)

Contact Us

Coatings Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/coatings
coatings@mdpi.com
𝕏@Coatings_MDPI