

# Special Issue

## Recent Advances in Bio-Composite Coatings

### Message from the Guest Editor

We would like to invite you to submit your work to this Special Issue on “Recent Advances in Bio-Composite Coatings”. The topics of interest include, but are not limited to, wood (including natural and chemical- and thermal-modified wood) and cellulosic fibers (including paper, paperboard, cardboard, textiles, etc.) and other natural fiber-based green composite materials. Other topics of interest include the following:

- Bio-polyols (liquefied wood and lignin polyols; natural oil-based polyols and other naturally origin polyols) for polyurethane and epoxy coatings;
- Cellulose derivatives (ester and ether derivatives, including both water soluble and water insoluble types) and all types of nanocellulose (nanofibrils, nanocrystals, and bacterial cellulose);
- Chemically modified or functionalized lignin nanoparticles as bio-composite coatings;
- Fatty acids, bio-polyesters, and waxes;
- Electrospun-nanofibrous-coating-based renewable polymers;
- Other natural originated polymers, such as starch (protein) chitosan, silk, alginate, etc.;
- Hybrid bio-composite coating containing different nanomaterials (metallic nanoparticles, carbon nanomaterials, clay nanoparticles, etc.).

### Guest Editor

Dr. Anuj Kumar

Natural Resources Institute Finland (Luke), Production Systems,  
Viikinkaari 9, FI-00790 Helsinki, Finland

### Deadline for manuscript submissions

closed (31 December 2021)



## Coatings

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.4



[mdpi.com/si/40822](https://mdpi.com/si/40822)

*Coatings*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[coatings@mdpi.com](mailto:coatings@mdpi.com)

[mdpi.com/journal/  
coatings](https://mdpi.com/journal/coatings)





# Coatings

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.4



[mdpi.com/journal/  
coatings](https://mdpi.com/journal/coatings)



## 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)