



## Micro/Nanomaterials for Heat Transfer, Energy Storage and Conversion

Guest Editors:

**Dr. Mingjian He**

**Dr. Yasong Sun**

**Dr. Zhaolong Wang**

**Dr. Boxiang Wang**

Deadline for manuscript  
submissions:

**closed (31 December 2023)**

### Message from the Guest Editors

We are pleased to invite you to submit your work to this Special Issue of *Coatings* on “Micro/Nanomaterials for Heat Transfer, Energy Storage and Conversion”.

Micro/Nanomaterials are known to exhibit a number of interesting physical properties with excellent performance in the fields of heat transfer, energy conversion and storage, which also have great promise in nanoscale electronics, sensors, photonics devices and biomedical applications. With the continuous increase of CO<sub>2</sub> emission and the shrinking of fossil energy supply, there is a great demand for clean and renewable energy technologies. Towards this aim, we are establishing a Special Issue of *Coatings*, which provides a platform for researchers in related fields to publish their research efforts.

In this Special Issue, original research articles and reviews are welcome. Research areas may include, but are not limited to, the following:

- Theoretical and experimental research, new ideas in heat transfer, energy storage and conversion using micro/nanomaterials;
- Synthetic and natural characterization of advanced energy storage micro/nanomaterials.

We look forward to receiving your contributions.





## 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