

New Advances in Ceramic Coatings and Its Applications

Guest Editor:

Prof. Yu Bai

School of Materials Science and
Engineering, Xi'an Jiaotong
University, Xi'an 710049, China

Deadline for manuscript
submissions:

closed (15 July 2024)

Message from the Guest Editor

Ceramic coatings have been widely applied in a variety of fields, such as thermal insulation, anti-corrosion, anti-wear, self-lubrication, antimicrobial activity, electrochemical conversion, energy storage, etc. This Special Issue focuses on processing and microstructure design, mechanical and thermal properties, advanced testing and non-destructive evaluation, wear, erosion and corrosion behavior, and the functional properties and modeling of ceramic coatings. Contributed articles are expected to include the current study of and state-of-the-art industrial applications of ceramic coatings. In particular, the topics of interest include but are not limited to:

- Processing and microstructure design;
- Mechanical and thermal properties;
- Advanced testing;
- Non-destructive evaluation;
- Anti-wear;
- Corrosion resistance;
- Modeling



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