



Coatings Challenges in Harsh Environments

Guest Editor:

Dr. Shiladitya Paul

1. Materials Performance & Integrity Technology Group, TWI Ltd., Cambridge CB21 6AL, UK
2. Materials Innovation Centre (MatIC), School of Engineering, University of Leicester, Leicester LE1 7RH, UK

Deadline for manuscript submissions:

closed (10 November 2021)

Message from the Guest Editor

Dear Colleagues,

This Special Issue of *Coatings* entitled “Coatings Challenges in Harsh Environments” is devoted to research and review articles on the metallic, non-metallic and composite coatings used in aggressive environments.

In particular, the topics of interest include, but are not limited to:

- Coatings for high temperature and molten salt applications;
- Coatings for mitigating corrosion in CO₂ and H₂S environments;
- Thermal spray and cold spray coatings for aggressive environments;
- Corrosion, wear and cavitation resistant coatings;
- Coatings for mitigating marine corrosion;
- Coatings for nuclear applications;
- Coatings for chemical and petrochemical plants;
- Coatings for aeroengine turbines, such as thermal barrier coatings;
- Coatings for applications in space;
- Coatings for oil sands and other oil and gas exploration environments;
- Coatings for applications in geothermal environments.



mdpi.com/si/45975

Dr. Shiladitya Paul
Guest Editor

Special *Issue*



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), Inspec, 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