

## Coatings Challenges in Harsh Environments

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submissions:

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### 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 CO<sub>2</sub> and H<sub>2</sub>S 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.



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Dr. Shiladitya Paul  
*Guest Editor*

# Special Issue

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## 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.

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