

Special Issue

Compositionally Complex Coatings

Message from the Guest Editors

The demand for materials to perform well under harsh industrial environments has been pushing materials research forward, not only with incremental improvements in existing conventional materials, but also with the development and discovery of completely new materials. This Special Issue plans to give an overview of the most recent advances, emphasising the development of materials as well as deposition techniques, e.g., using thermal spray, cold spray, laser-based, and arc welding techniques for metallic coatings, and slurry-based methods for ceramic coatings, also in addition to sputtering and PVD. Original research articles as well as review papers are welcome. Potential topics include, but are not limited to:

- Composition design for coating development;
- Powder manufacturing/ processing;
- Process parameter optimisation;
- Microstructure evolution;
- Mechanical properties (both static and dynamic);
- Residual stresses;
- Tribology and corrosion properties;
- Effect of post-processing, such as thermal treatments;
- Modelling of alloy development, production process, properties and performance.

Guest Editors

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Deadline for manuscript submissions

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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.

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