



Hard Wear-Resistant Coatings

Guest Editor:

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submissions:

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Message from the Guest Editor

Dear Colleagues,

We would like to invite you to submit your new research work to the Special Issue on "Hard Wear Resistant Coatings for Cutting Tools". With the continuing industrial revolution, cutting tools are required to be environmentally benign and economically effective. During machining, the hardness and wear resistance of cutting tools significantly influence machining efficiency and precision. Coating is an effective approach to enable cutting tools to meet increasingly enhanced demands. The combination of tools and coatings is conducive to higher machining efficiency and precision, as well as better thermal properties and longer service life than the original tools.

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

- Hard coatings;
- Coated tools, Cutting performance;
- Tribological behaviour, Fracture toughness, Friction and wear;
- Self-lubricating behavior;
- Oxidation resistance, Thermal stability;
- Adhesion between coating and substrate;
- New analytical methods;
- Novel deposition technology;
- Modeling and characterization methods of surface;
- Advanced surface modification techniques.





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Message from the Editorial Board

Now more than ever, research is called for to produce technologies and improve knowledge 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 at the center of most contemporary research. Surface science and engineering play a key role in this regard. Refining surfaces and their modifications provides new materials, architectures and processes with a huge potential to aid most societal challenges. *Coatings* is a well-established, peer-reviewed, online journal that focuses on the dissemination of publications in the field of surface science and engineering. *Coatings* publishes original research articles that report cutting-edge results and review papers on the hottest topics.

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