



Advanced Coating Materials for Machining Processes

Guest Editors:

Dr. Jinyang Xu

School of Mechanical
Engineering, Shanghai Jiao Tong
University, Shanghai 200240,
China

Prof. Dr. Mohamed El Mansori

Arts et Métiers Institute of
Technology, MSMP, HESAM
Université, F-51006 Châlons-en-
Champagne, France

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Message from the Guest Editors

This Special Issue aims to provide a platform for both academic and industrial researchers to disseminate their original research and critical review articles on all aspects of advanced coating materials utilized for diverse machining operations. Papers reporting important findings, novel insights, or useful techniques within the scope of this Special Issue are all welcome.

The topics of interest include but are not limited to:

- Fabrication and characterization of advanced coating materials;
- Evaluation of cutting performances of coated tools;
- Modeling and simulation of machining operations using coated tools;
- Machinability assessment of hard-to-cut materials;
- Thermal and frictional behaviors of coating materials;
- Wear modes and failure mechanisms of coated cutting tools;
- Quantification of coated tool wear in machining;
- Wear control strategies of coated cutting tools;
- Theoretical prediction of coated tool life;
- Machining quality and defects assessment when using coated tools.





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 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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Contact Us

Coatings
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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