



Hard Transition Metal Compound Coatings with Increased Flexibility

Guest Editors:

Dr. Tomasz Mościcki

Department of Experimental Mechanics, Institute of Fundamental Technological Research, Polish Academy of Science, Pawinskiego 5 B St., 02-106 Warsaw, Poland

Dr. Justyna Chrzanowska-Giżyńska

Department of Experimental Mechanics, Institute of Fundamental Technological Research Polish Academy of Science, Pawinskiego 5 B St., 02-106 Warsaw, Poland

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Message from the Guest Editors

Dear Colleagues,

This scope of this Special Issue will serve as a forum for papers in the following concepts:

- Theoretical and experimental research, knowledge, and new ideas in hard coatings with enhanced toughness and increased resistance to cracking.
- Experiments with and processing of thermally stable films, protecting the substrate against oxidation in high temperature coatings.
- The formation of single or multilayers composed of nano-bilayers with the aim to increase flexibility and adhesion to substrate.
- High-rate deposition of simultaneous hardness, toughness, and resistance to cracking in bending coatings.
- Coatings produced by different vacuum processes, including but not limited to magnetron sputtering, laser and plasma processing, CVD and also PVD hybrid method, etc.
- Computer modeling, experimenting, and processing to predict coating properties, performance, durability, and reliability in service environments.





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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.

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Contact Us

Coatings Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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