

New Advances in Ceramic Coatings and Its Applications

Guest Editor:

Prof. Yu Bai

School of Materials Science and
Engineering, Xi'an Jiaotong
University, Xi'an 710049, China

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Message from the Guest Editor

Ceramic coatings have been widely applied in a variety of fields, such as thermal insulation, anti-corrosion, anti-wear, self-lubrication, antimicrobial activity, electrochemical conversion, energy storage, etc. This Special Issue focuses on processing and microstructure design, mechanical and thermal properties, advanced testing and non-destructive evaluation, wear, erosion and corrosion behavior, and the functional properties and modeling of ceramic coatings. Contributed articles are expected to include the current study of and state-of-the-art industrial applications of ceramic coatings. In particular, the topics of interest include but are not limited to:

- Processing and microstructure design;
- Mechanical and thermal properties;
- Advanced testing;
- Non-destructive evaluation;
- Anti-wear;
- Corrosion resistance;
- Modeling



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State Key Laboratory of New
Ceramics and Fine Processing,
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Dr. Emerson Coy

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

Tel: +41 61 683 77 34
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