



Diamond and Diamond-Like Coatings: Deposition, Characterization, and Applications

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Message from the Guest Editor

Dear Colleagues,

Diamond has been seen as a valuable material since ancient times. It combines a number of superior mechanical, optical, thermal, and electrical properties.

The present Special Issue addresses the key aspects of either deposition, characterization, and application of diamond and diamond-like carbon film materials. Both fundamental science and engineering concepts as well as theoretical and experimental studies addressing deposition-structure-properties relationships will be welcomed as the subject of submitted manuscripts. In particular, the topics of interest include but are not limited to CVD diamond, amorphous carbons (DLC, carbon nitride), advances in deposition methods and modification, wear resistant coatings, as well as cases of successful applications in the areas of optics, electronics, biomedics and electrochemistry.

In conclusion, it is my pleasure to invite all researchers from the R&D community of diamond and related hard carbon materials to submit a manuscript in the field for this special issue. Full papers, communications, and review articles are all welcome.

Dr. Ivan Buijnsters
Guest Editor





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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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