



Tribology of Diamond-Like Carbon Films: Recent Progress and Future Trends

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Message from the Guest Editors

Dear Colleagues,

We welcome submissions on the “Tribology of Diamond-like Carbon Films: Recent Progress and Future Trends”. From a tribological perspective, DLC has been used to boost the energy efficiency of fossil fuel vehicles for several decades. Recently, the demand for green energy has been rapidly increasing along with the phase-out of fossil fuel vehicles, and tribological solutions need to be provided in various environments (e.g., ablation, acid–base corrosion, electro-corrosion, ultra-high vacuum, elevated and cryogenic temperatures). Here, we hope to explore the unprecedented properties of DLC, including its tribological performance, as well as its future applications. In this issue, we cover evaluation and coating processes for structurally and elementally modified DLC and seek insights into future R&D directions to suit the changing environment. Topics of particular interest in this Special Issue include the following:

- Novel processes of DLC deposition;
- Structurally or elementally controlled DLC coating;
- Future applications of DLC coating (e.g., corrosion, ablation, high temperature, low temperature, optics, semiconductor, etc.).

