



Diamond Films

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Message from the Guest Editors

This Special Issue refers to thin polycrystalline diamond layers that are produced mainly by chemical vapor deposition. Diamonds show a coincidence of important properties, including, e.g., hardness, Young's modulus, wide range of optical radiation transmission (from ultraviolet to far infrared), large thermal conductivity, and the possibility of electrical conductivity tailoring by doping of the lattice. Although thin diamond layers and doped diamond layers were developed several decades ago, they have become more and more popular in numerous applications in recent years, including high frequency and high power electronics, photonics, photovoltaics, electrochemistry, sensors, microelectromechanical systems (MEMS), tribological coatings, and in heat-dissipating layers. This stimulates the search for novel diamond structures, as well as the development of methods for their design, manufacturing, and diagnostics. Therefore, the subject matter of the issue will cover all issues related to the synthesis and applications of the thin diamond layers





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Message from the Editor-in-Chief

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