



# **Synthetic Diamond Films: Preparation, Electrochemistry, Characterization and Applications**

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# Synthetic Diamond Films: Preparation, Electrochemistry, Characterization and Applications

## **Synthetic Diamond Films: Preparation, Electrochemistry, Characterization and Applications**

The book gives an overview on the current development status of synthetic diamond films and their applications. Its initial part is devoted to discuss the different types of conductive diamond electrodes that have been synthesized, their preparation methods, and their chemical properties and characterization. The electrochemical properties of diamond films in different scientific areas, with special attention in electroanalysis, are further described. Different strategies to modify these electrodes are also discussed as important technologies with ability to change their electrochemical characteristics for a more specific electroanalytical use. The second part of the book deals with practical applications of diamond electrodes to the industry, organic electrosynthesis, electrochemical energy technology, and biotechnology. Special emphasis is made on the properties of these materials for the production of strong oxidizing species allowing the fast mineralization of organics and their use for water disinfection and decontamination. Recent biotechnological development on biosensors, microelectrodes, and nanostructured electrodes, as well as on neurochemistry, is also presented. The book will be written by a large number of internationally recognized experts and comprises 24 chapters describing the characteristics and theoretical fundamentals of the different electrochemical uses and applications of synthetic diamond films.

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