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Synthesis of Carbon Nanotubes by the Catalytic Decomposition of MethaneSession 2 - Electronic and Optoelectronic Properties and Applications; High-Field Electrical Transport in Single Crystal CVD Diamond Diodes; Nanodiamond Lateral Field Emission Diode Devices; Vacuum Thermionic Energy Conversion Based on Nanocrystalline Diamond Films; Surface Conductivity of Diamond: A Novel Doping Mechanism; Single Crystal CVD Diamond Nuclear Detectors; Growth and Characterization of Tungsten Oxide for Applications in Nanoelectronics; Carbon Nanowalls Formation by Radical Controlled Plasma Process
Use of Electric Discharge Sintering for Elaboration of Diamond ToolsSession 3 - Acoustic, Electrochemical and Biochemical Properties and Applications; Normally Closed Microgrippers Based on Diamond Like Carbon Structures; Diamond Loudspeaker Cones for High-End Audio Components; Carbon Materials in Biochemistry and Biophysics; Nanoporous-Carbon Coatings for Gas-Phase Chemical Microsensors; Electrocatalytic Behaviour of Diamond Electrode for Organic Compound; Keywords Index; Authors Index

Sommario/riassunto

This collection presents 24 papers. Altogether, the collection offers a wealth of up-to-date information on Diamond and Other New Carbon Materials.