DIAMOND AND RELATED MATERIALS

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DESCRIPTION

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**Keyword Listing**

1. **Materials**

   aluminum nitride (AlN)
   amorphous
   amorphous carbon
   amorphous hydrogenated carbon
   amorphous alloys
   boron nitride (BN)
   carbides
   carbon nitride
   composites
   cubic boron nitride (c-BN)
   diamond crystal
   diamond film
   diamond-like carbon
   fibres
   fullerenes
   gallium nitride (GaN)
   graphite
   glassy carbon
   metastable phases
   nanocrystalline
   nanofibers
   nanoparticles
   nanostructures
   nanotubes
   natural diamond
   nitrides
   polytypes
   silicon carbide (SiC)
   synthetic diamond
   tetrahedral amorphous carbon

2. **Growth and Synthesis**

   bias growth
   buffer layer
   cathodic arc discharge
   chemical vapor deposition
   chemisorption
   combustion synthesis
   simulation
   single crystal growth
   gas phase reactions
   heteroepitaxy
   heterojunction
   high pressure crystal growth
   high pressure high temperature (HTHP)
   homoepitaxy
   hot filament CVD
   ion assisted deposition
   ion beam deposition
   ion bombardment
   molecular beam epitaxy (MBE)
   nucleation
physical vapor deposition
plasma CVD
pulsed laser deposition (PLD)
reactor modelling
solution growth
sputtering
sublimation growth
vapour growth

3. Processes and Phenomena

abrasion
absorption
adhesion
adsorption
catalytic processes
corrosion
desorption
diffusion
etching
field emission
friction
impact ionization
implantation
isotopic effects
oxidation
optical emission
passivation
polishing
radiation induced effects
reactive ion etching (RIE)
wear

4. Characterization

defect characterization
electrical properties characterization
grain boundary characterization
high resolutions electron microscopy
impurity characterization
interface characterization
mechanical properties characterization
optical properties characterization
scanning probe techniques
surface characterization
surface microscopy
vibrational properties characterization

5. Properties

acoustic properties
band structure
biocompatibility
bonding configurations
n-type doping
p-type doping
defects
electrical conductivity
electrical properties
electron affinity
6. Applications

actuators
biomaterials
biomedical applications
coatings
cutting tools
device modeling
detectors
display technologies
electrodes
electrochemical
electronic device structures
high power electronics
high frequency electronics
light emission
laser materials
membranes
micro electromechanical systems (MEMS)
nanotechnology
Schottky diodes
sensors
surface acoustic wave devices
superhard materials
windows

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