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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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