DIAMOND AND RELATED MATERIALS

AUTHOR INFORMATION PACK

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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)
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
- electronic states
- excitons
- grain boundaries
- hardness
- impurities
- interface structure
- interface electronic properties
- mechanical properties
- microstructure
- morphology
- Ohmic contacts
- optoelectronic properties
- optical properties
- phonons
- sound waves
- strain
- surface energy
- surface structure
- surface electronic properties
- thermal properties
- thermal stability
- tribology
- vibrational properties
- work function

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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