



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)
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
- 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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