



# DIAMOND AND RELATED MATERIALS

## AUTHOR INFORMATION PACK

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Materials Scientists, Solid-State Physicists, Solid-State Chemists, Electronic Engineers, Electrical Engineers, Mechanical Engineers, Optical Engineers

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[2] W. Strunk Jr., E.B. White, *The Elements of Style*, fourth ed., Longman, New York, 2000.

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Reference to a website:

[4] Cancer Research UK, Cancer statistics reports for the UK. <http://www.cancerresearchuk.org/aboutcancer/statistics/cancerstatsreport/>, 2003 (accessed 13 March 2003).

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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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