



# 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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[3] G.R. Mettam, L.B. Adams, How to prepare an electronic version of your article, in: B.S. Jones, R.Z. Smith (Eds.), *Introduction to the Electronic Age*, E-Publishing Inc., New York, 2009, pp. 281–304.

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[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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