

Researches

- Growth and characterization of high-quality semiconducting (p-type, n-type and undoped) diamond films, heavily-doped metallic diamond and self-standing films fabricated using high-power-density microwave-plasma chemical-vapor-deposition (CVD) method which can lead to reasonable growth rates.
- Development of high-performance diamond detectors for deep ultra-violet lights, X-rays and γ -rays, as well as characterization of device performances
- Development of fabrication processes of diamond electronic devices including power electronics devices by using functionalized high-quality CVD diamond films
- Development of new-type microwave CVD apparatus
- Fabrication and characterization of carbon thin films using CVD processes
- Development and characterization of functionalized devices fabricated with oxides and perovskite materials

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