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Nanostructuring diamond surfaces using highly charged ions

The nanostructuring of diamond and graphite surfaces using highly charged ions is studied. Results are presented in terms of changes in morphology and local electronic states observed using atomic force microscopy (AFM) and scanning and tunnelling microscopy (STM) respectively. Energy dependence of defect formation coupled with the use of advanced nanostructuring facilities such as the electron beam ion trap (EBIT) allow the rare opportunity of fabricating scalable solid state quantum information devices and other devices that have been structured on the nanoscale.

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