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## Heat treatment of glassy carbon implanted with strontium at room and high temperatures

*Wednesday, 13 July 2011 17:00 (2 hours)*

The effects of annealing temperature and time on glassy carbon implanted with 360 keV strontium ions at room and high temperatures are reported. The samples were implanted with strontium ions to a fluence of  $2 \times 10^{22}$

ions/cm<sup>2</sup> at room temperatures, 350°C and 600°C. The room temperature implanted samples were isochronally vacuum annealed at temperatures from 200°C to 700°C for 1 hour. The depth profiles of the implanted samples before and after annealing were obtained by ion beam technique, viz. Rutherford Backscattering Scattering (RBS). Scanning Electron Microscopy (SEM) was employed to investigate the effect of implanted ions and annealing temperatures on the microstructure of the substrate.

**Level (Hons, MSc, &nbsp; PhD, other)?**

PhD

**Consider for a student &nbsp; award (Yes / No)?**

Yes

**Would you like to <br> submit a short paper <br> for the Conference <br> Proceedings (Yes / No)?**

Yes

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