

Ion Implantation Services for Non Traditional Material Doping

The Rest of the Periodic Table

There are a number of ion implantation service companies that will implant virtually any element into a silicon wafer (other substrates are possible, but you need to contact the companies directly). Each company has a periodic table of what they will implant and there are only a few elements that they do not do (typically very expensive elements, such as platinum). The information on energies they implant at and possible surface concentrations are on their web sites (both web sites are very good).

Contact the companies directly for pricing.

Service Companies (in no particular order)

- 1) Core Systems (www.coresystems.com) – Sunnyvale CA

Their website contains all the information required to submit wafers and specification on their abilities. It is a very good web site. They have both mid and high current implant systems and can implant from 10 keV to 200 keV (higher the keV, the deeper the implant)

- 2) Innovion Corp (www.innovion.cc) (Note the .cc in the web address) – San Jose CA

Their website contains all the information required to submit wafers and specification on their abilities. It is a very good web site. They have both mid and high current implant systems and can implant from 10 keV to 200 keV (higher the keV, the deeper the implant)

Both companies have been used for boron doping of 4" wafers. The NanoFab users were happy with the results from both companies.