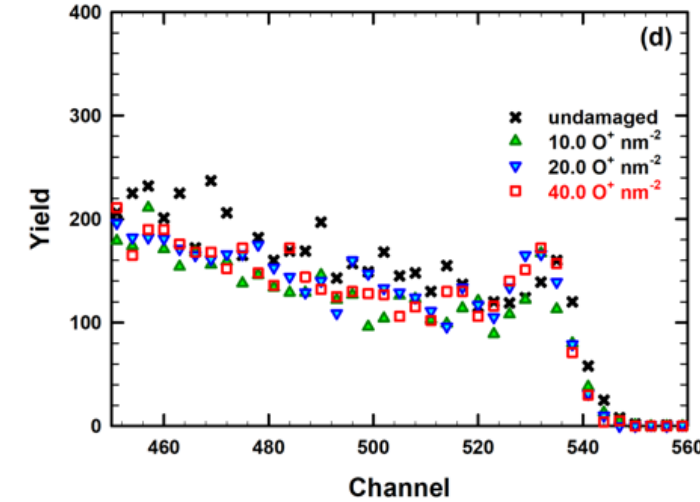
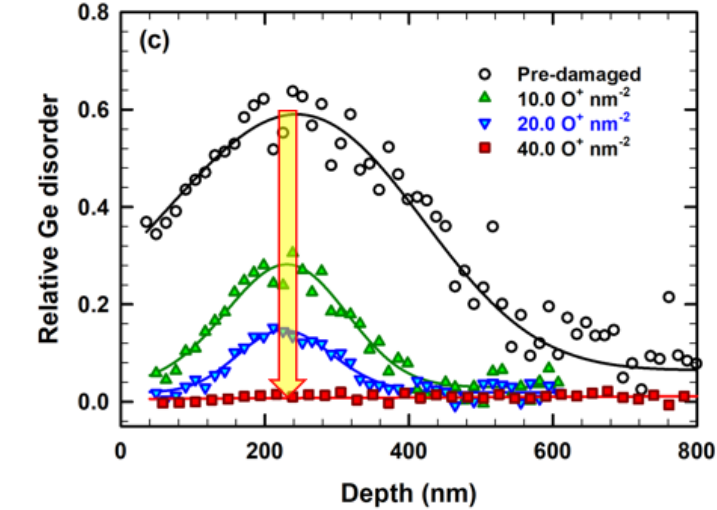
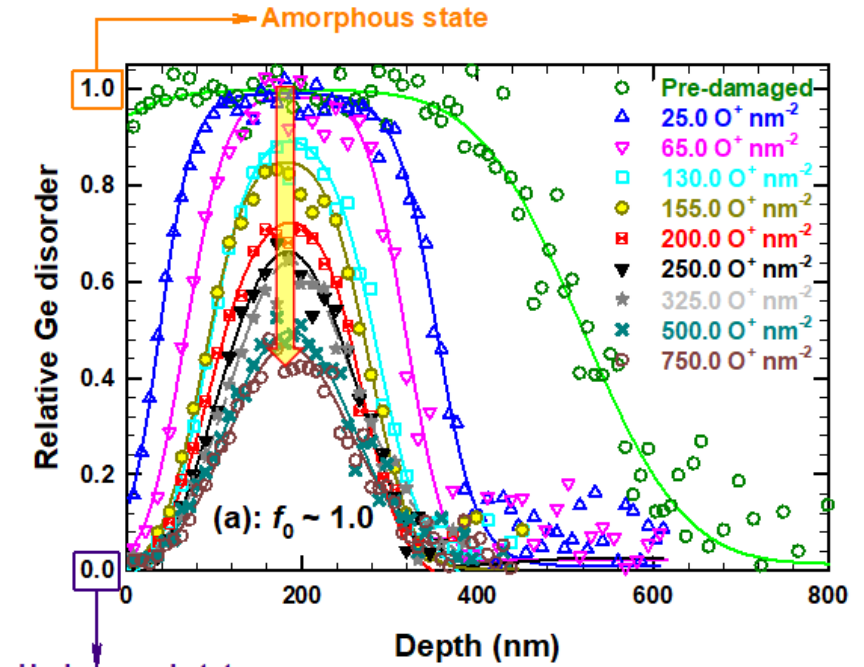
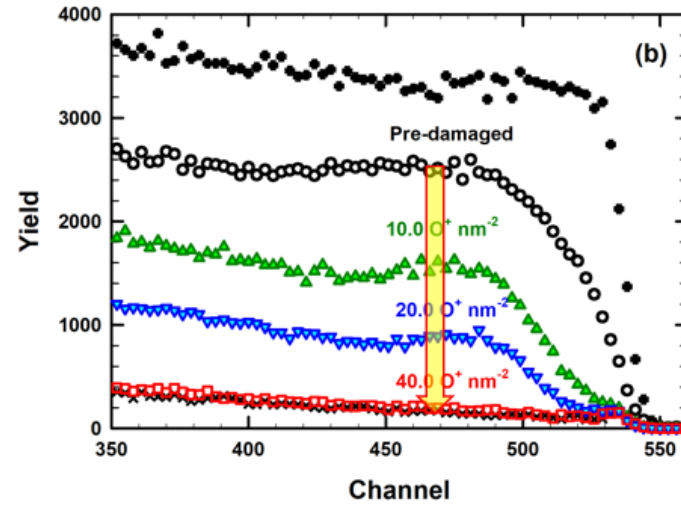
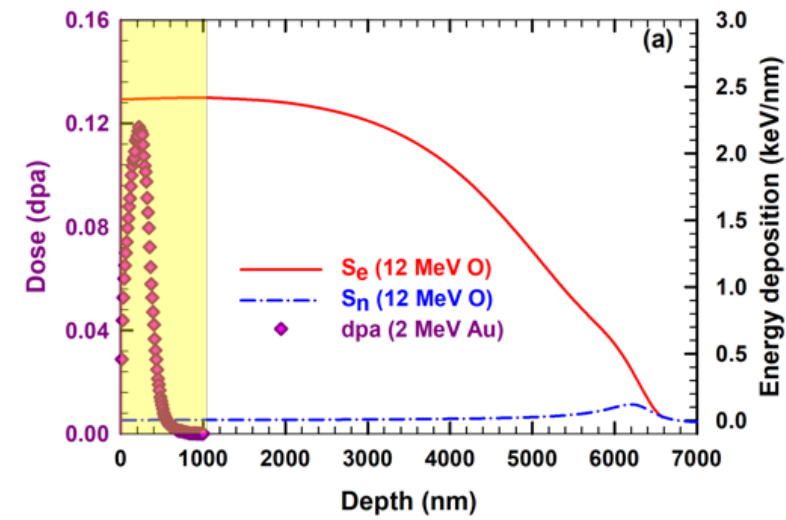


Ionization-induced healing and atom reordering in Germanium



Completely restore the crystal structure!

Pristine Ge is **insensitive** to ionizing irradiation!

Incomplete recovery!
In Ge, ionization anneals the existing damage!

Ge: $1+1 < 2$

1 (nuclear) + 1 (electronic) < 2 Competitive