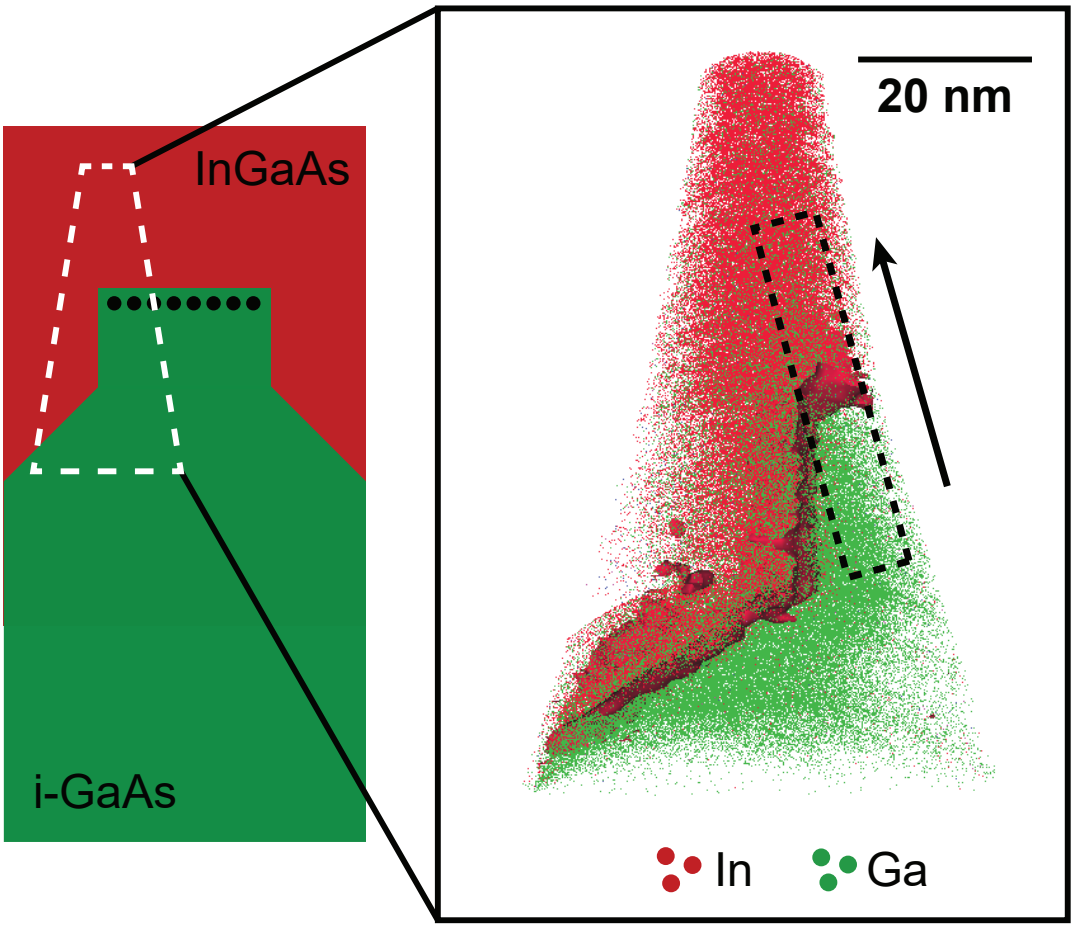
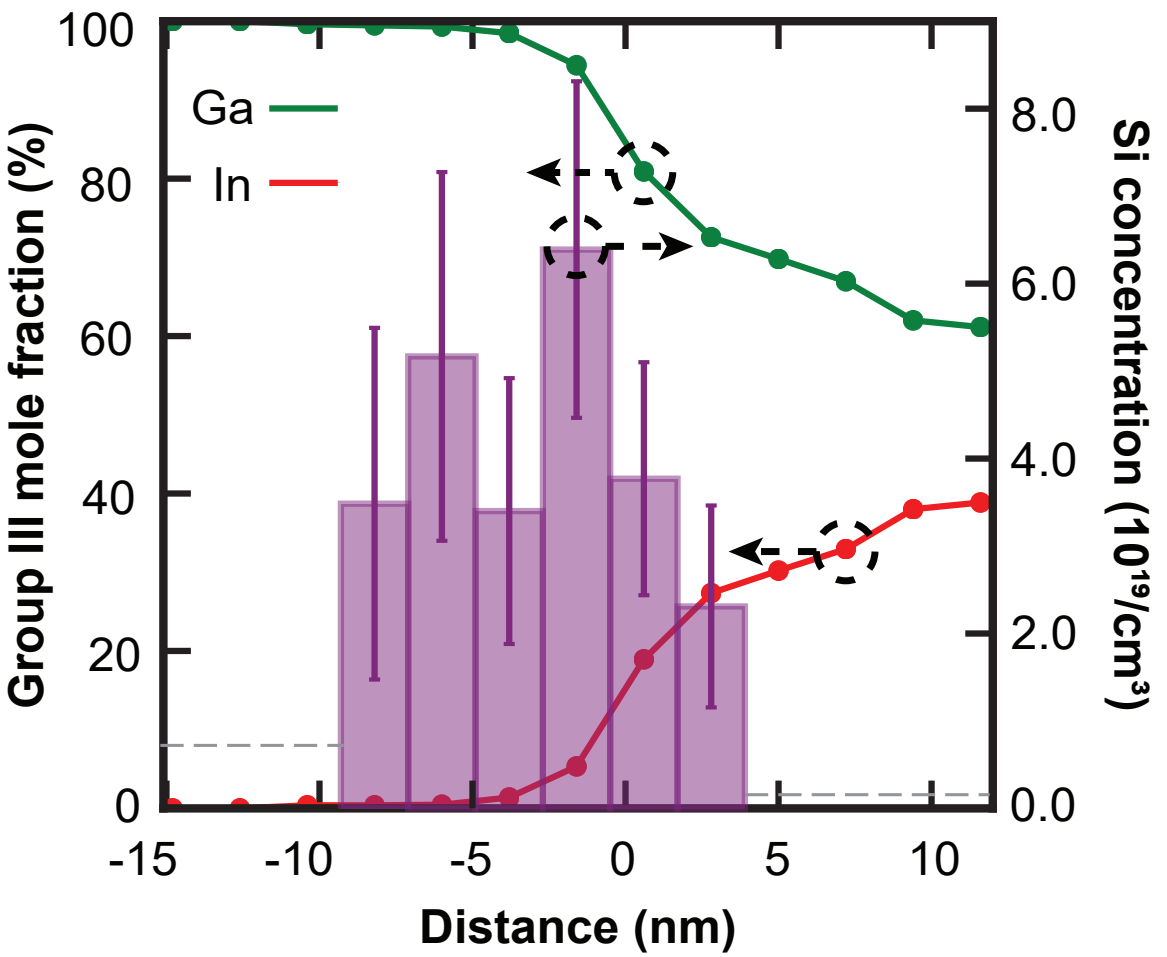
a)


InGaAs
i-GaAs
20 nm
In
Ga

b)


Ga
In
Group III mole fraction (%)
Si concentration (10^{19}/cm^3)
Distance (nm)
100
80
60
40
20
0
8.0
6.0
4.0
2.0
0.0
-15
-10
-5
0
5
10