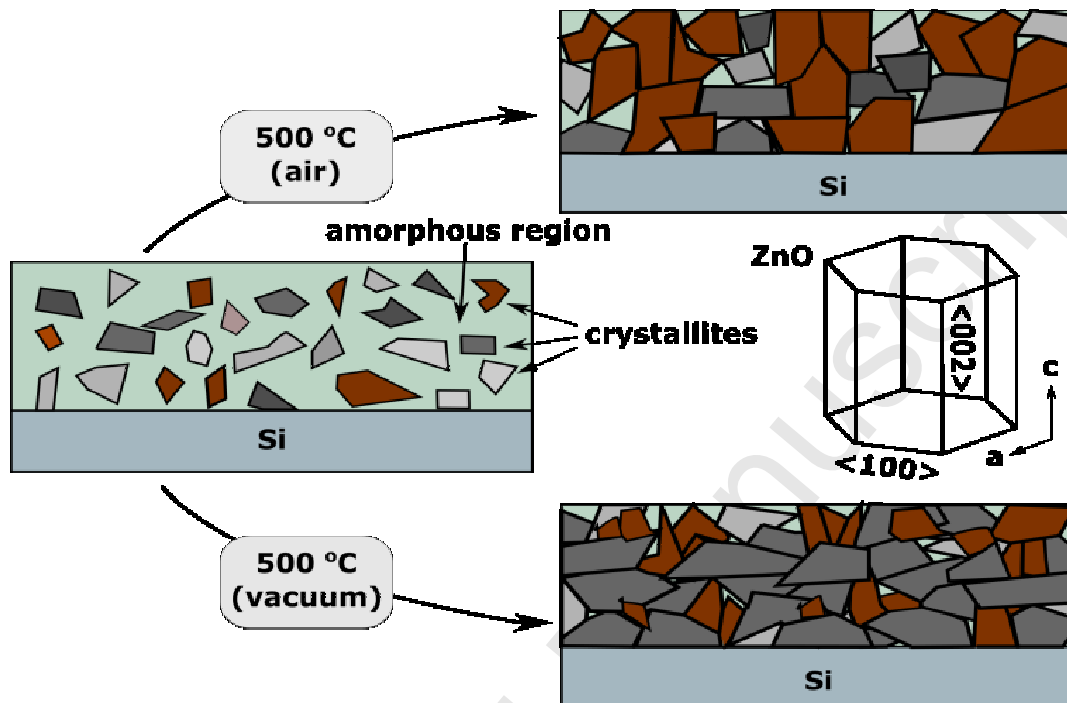


Graphical abstract



Highlights

- Annealing dependent microstructural evolution and change in conductivity of ZnO films
- Preferential growth along (002) and (100) planes in air and vacuum annealed films
- Resistivity varied between 10^6 and $10^{-2} \Omega\text{cm}$ depending on annealing conditions
- Hydrogen interstitials, and hydrogen-oxygen vacancy complexes affect the conductivity
- Narrow ZnO bandgap assigned to band tail effect related to intrinsic defects states

Download English Version:

<https://daneshyari.com/en/article/5347883>

Download Persian Version:

<https://daneshyari.com/article/5347883>

[Daneshyari.com](https://daneshyari.com)