

【M-05】

Deposition of MgB₂ Thin Films by using of Chemical Vapor Deposition

이정욱, 박규순, 남궁혜, 성명모,
국민대 화학과

The new discovery of MgB₂ superconductor having a remarkably high transition temperature ($T_c = 39\text{K}$) has generated a great attention. The fabrication of MgB₂ thin films should be important for the future applications and basic research studies. The MgB₂ thin films have been grown on silicon and sapphire substrates using Cp₂Mg and B₂H₆ by chemical vapor deposition in the temperature range 600°C ~ 800°C. The deposited films have been investigated by x-ray diffraction, secondary electron microscopy, and x-ray photoelectron spectroscopy.