

In Ga codoping ZnO thin film

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가 , , light emitting devices (LED)
 , ZnO (3.37 eV) 가
 , , TCO . ZnO
 devices 가
 가 ZnO thin film . ZnO
 spin coating
 In Ga dopant 가 .
 XRD UV-Vis spectroscopy Hall
 measurement ZnO .
 In Ga ZnO (400~ 800 nm) 80%
 undoped ZnO film resistivity가
 In Ga doping 3+ ZnO lattice 2+
 가 가 . 가 In 0.5 mol%
 ZnO film 7