Photoluminescence Studies Of Cdo Nanomaterials Doped With Li+ And Eu3+ Ions

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**Abstract**: CdO, 5 at.% Eu3+ doped CdO, 2 at.% Li+ and 5 at.% Eu3+ co-doped CdO nanomaterials in organic solvent are prepared by urea hydrolysis in ethylene glycol medium at low temperature of 150 °C. CdO nanomaterials have the apical ratio of 50 nm to 2 μm. CdO starts band gap edge at 360 nm and shows luminescence at 430 nm (blue emission). It establishes that the red emission can be enhanced by Li-doping. Also, the significant energy transfer from host CdO to Eu3+ is found for 2 at.% Li+ and 5 at.% Eu3+ co-doped CdO.