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## Electrical Behaviour of Sm (+3) Doped with CdSe FTO Thin Films

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Above results of Photoconductivity, optical spectra and Raman studies are presented CdSe films, synthesised in aqueous solution phase at 80 °C by using the Chemical Bath Method. CdSe films were characterized by using different characterization. AFM, SEM and Composition studies show that films with smooth surface and well defined stoichiometry ratio of compounds. The optical values of some important parameters of the studied films were calculated by UV study are determined from transmission spectra at wavelength 200 to 900 nm. Optical band gap  $E_g$  was calculated by tauc relation. Energy band gap of Bandgap in Raman analysis, a prominent peak shows that confirmation of nano crystalline phase. And intensity of peaks was decreasing after doping. From IV results shows that both dark and photo current of samples increase linearly with applied voltage.