
TL Studies in KCl doped with Sr²⁺ ions

Mayank Pandey¹, A.K.Mishra^{2*}, Pradeep Gupta³ and Navin Pant⁴

ABSTRACT

Thermoluminescence (TL) studies have been made in KCl doped with divalent strontium cations. The aqueous grown Sr²⁺ - doped KCl samples when irradiated with X-rays yield a TL glow peak at 77⁰C. The trap depth of such centres has been estimated as per Chen's formula and has been found to be 0.51 eV. This value is slightly higher than the trap depth of 0.48 eV for corresponding F-centers in Mn²⁺-doped KCl.