

Luminescence of Bi³⁺ in La_{1-x}Sr_xGaO₃

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In ABO₃ type perovskite structures, Bi³⁺ luminescence is determined by factors such as covalency, coordination number, site symmetry etc. We report on the luminescence of (La_{1-x}Bi_{0.005}Sr_x)GaO₃ (x = 0 to 0.30) in the temperature range of 10 to 300 K. Factors that establish optical properties and quenching of Bi³⁺ luminescence are identified.

REFERENCES

1. Alok M. Srivastava in *Mat. Res. Bull.*, **34**, 9, 1391-1396, 1999.