**NGHIÊN CỨU TỔNG HỢP VẬT LIỆU SPINEL PHÁT QUANG PHA TẠP Eu**

**Synthesis and photoluminescence studies of Eu doped spinel materials**

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**SUMMARY**

Spinels BaLa2O4.Eu3+ and CaLa2O4.Eu3+ have been synthesized via sol-gel method. The influences of calcination temperature, soaking time, ratio of Eu3+ to luminescent properties of the materials were investigated. It is found that spinel luminescent materials doped Eu with phosphor wavelength of 579nm, 607nm and 620nm were successfully synthesized under the following conditions: the propotion of rare earth ion in host materials BaLa2O4 or CaLa2O4 contained 4 mol% which is suitable for the strongest phosphor intensive.