

Photoluminescence of Ce and Pr codoped calcium thiogallate

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<https://doi.org/10.1002/pssc.200669602>

Abstract

We investigated the room temperature photoluminescence of calcium thiogallate codoped with Ce and Pr. Line shaped emissions superimposed over a wide and composed luminescence band were observed. Different components were distinguished by means of time resolved photoluminescence measurements, and were attributed to the dopant species. A band at 2.24 eV, not previously reported, was observed.

Keywords: *calcium thiogallate, photoluminescence*

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