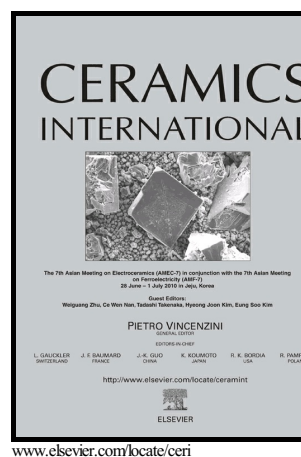


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CaTiO₃ and Ca_{1-3x}Sm_xTiO₃: Photoluminescence and Morphology as a Result of Hydrothermal Microwave Methodology

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Abstract

Calcium Titanate (CaTiO₃-CT) and samarium doped calcium titanate (CaTiO₃:Sm³⁺-CT:Sm) powders in different Sm³⁺ concentrations (0.5-5.0% molar ratio of Sm³⁺) were obtained by the Hydrothermal Microwave methodology at 140 °C for 16 minutes. These crystals were structurally characterized by X-ray diffraction (XRD) and micro-Raman

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