

**SPECTROSCOPIC INVESTIGATION OF THE INFLUENCE OF NO₃⁻
ANIONS ON THE CRYSTALLIZATION OF SiO₂ MATRIX**

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Abstract. In this study was performed Fourier-transform infrared spectroscopy (FTIR) analysis of the impact of nitrate (NO₃⁻) anions on the dynamic of silica (SiO₂) matrix crystallization. Samples were prepared by acid-catalyzed sol-gel route (T_{ann} = 800 °C and 1000 °C). Origin of the partial crystallization of silica matrix at 1000 °C was commented.