THE GROWTH OF SOL-GEL DERIVED BATIO3 NANOLAYERS ON FUSED SILICA SUBSTRATES

RŮST SOL-GEL SEKUNDÁRNÍCH NANOVRSTVEV BATIO3 NA ROZTAVENÉM KŘEMIČITÉM SUBSTRÁTU

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In this research barium titanate nanothin films were prepared by a modified sol–gel dip-coating method, then the nanofilms was characterized by AFM and SEM for their growth behavior. Results show that BaTiO3 film crystallization begins at 600 °C and topographic analysis shows the presence columnar grains with preferred orientation. At higher temperatures grain growth occurred and surface roughness increased and optical transparency decreased.

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