



# AIUB DSpace Publication Details

**Title:** Synthesis of Bismuth Ferrites Nanoparticles by Modified Pechini Sol-Gel Method

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## Abstract:

Different methods have been adopted for preparing  $\text{BiFeO}_3$  nanopowder. Recently, wet chemical methods have received abundant attention. Among the wet chemical methods, the modified Pechini sol-gel method is very cost effective, simple and suitable for synthesis of highly homogenous and very fine crystalline nanopowder. The process is based on the mixing of reactants that oxidize easily, such as metal nitrates, and an organic chelating agent that acts as reducing agent.