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# SYNTHESIS AND CHARACTERIZATION OF BATIO3 VIA MICROWAVE-HYDROTHERMAL



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Synthesis and  
characterization of BaTiO<sub>3</sub>  
via microwave-  
hydrothermal



Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Barium titanate (BaTiO<sub>3</sub>) is widely used for electronic devices in the technological ceramic industry because of its ferroelectric, thermoelectric, and piezoelectric properties when it assumes the tetragonal structure. As such, it can be widely used in capacitors, positive temperature coefficient resistors, dynamic random access memories, electromechanics, and nonlinear optics. The synthesis of ultrafine BaTiO<sub>3</sub> nanoparticles is theoretically and technologically important for device fabrication. Many novel synthesis techniques have been developed for this...

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