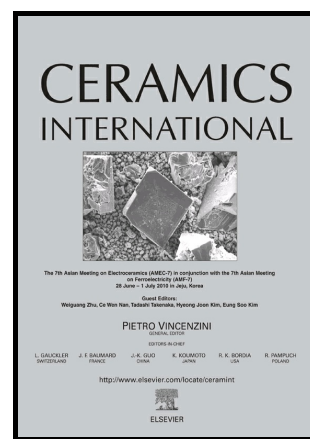


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PII: S0272-8842(18)30301-8
DOI: <https://doi.org/10.1016/j.ceramint.2018.02.006>
Reference: CERI17408

To appear in: *Ceramics International*

Received date: 16 November 2017
Revised date: 1 February 2018
Accepted date: 1 February 2018

Cite this article as: Pakpoom Jarupoom, Pharatree Jaita, Ratabongkot Sanjoom, Chamnan Random and Gobwute Rujijanagul, High magnetic and ferroelectric properties of BZT-LSM multiferroic composites at room temperature, *Ceramics International*, <https://doi.org/10.1016/j.ceramint.2018.02.006>

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ABSTRACT

In this research, the effects of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ additive on the phase evolution, microstructure, dielectric, ferroelectric and magnetic properties of $\text{BaZr}_{0.07}\text{Ti}_{0.93}\text{O}_3$ ceramics were systematically investigated. The $(\text{BaZr}_{0.07}\text{Ti}_{0.93}\text{O}_3)/x(\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3)$ or BZT/ x LSM (where $x = 0, 5, 10$ and 20 mol%) ceramics were prepared via a solid state reaction method. A pure perovskite phase is observed for the samples of $x \leq 10$ mol%. The M - H hysteresis loops also show an improvement in the magnetic behavior for higher LSM content samples as well as

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