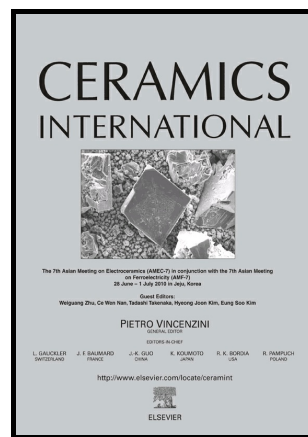


Dielectric behaviors of $\text{Ba}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$
modified $(\text{Na}_{0.5}\text{K}_{0.5})\text{NbO}_3$ ceramics

Hsiu-Hsien Su, Cheng-Shong Hong, Cheng-Che
Tsai, Sheng-Yuan Chu



www.elsevier.com/locate/ceri

PII: S0272-8842(18)30256-6
DOI: <https://doi.org/10.1016/j.ceramint.2018.01.234>
Reference: CER117366

To appear in: *Ceramics International*

Received date: 5 January 2018
Accepted date: 27 January 2018

Cite this article as: Hsiu-Hsien Su, Cheng-Shong Hong, Cheng-Che Tsai and Sheng-Yuan Chu, Dielectric behaviors of $\text{Ba}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ modified $(\text{Na}_{0.5}\text{K}_{0.5})\text{NbO}_3$ ceramics, *Ceramics International*, <https://doi.org/10.1016/j.ceramint.2018.01.234>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting galley proof before it is published in its final citable form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Dielectric behaviors of Ba(Mg_{1/3}Nb_{2/3})O₃ modified**(Na_{0.5}K_{0.5})NbO₃ ceramics**

Hsiu-Hsien Su^a, Cheng-Shong Hong^{b,*}, Cheng-Che Tsai^c, Sheng-Yuan Chu^{a,d,*}

^a*Department of Electrical Engineering, National Cheng Kung University, Tainan 70101, Taiwan*

^b*Department of Electronic Engineering, National Kaohsiung Normal University, Kaohsiung 824, Taiwan*

^c*Department of game and animation design, Tung Fang Design Institute, Kaohsiung 829, Taiwan*

^d*Center for Micro/Nano Science and Technology, National Cheng Kung University, Tainan 70101, Taiwan*

cshong@ncku.edu.tw (C. S. Hong)

chusy@mail.ncku.edu.tw (S.Y. Chu)

* Author to whom correspondence should be addressed; Tel: +886 7 7172930x7915; fax: +886 7 6051330.;

* Author to whom correspondence should be addressed; Tel: +886 6 2757575x62381; Fax: +886 6 2345482;

Abstract

The effects of Ba(Mg_{1/3}Nb_{2/3})O₃ additives to lead-free (1-x)(Na_{0.5}K_{0.5})NbO₃-xBa(Mg_{1/3}Nb_{2/3})O₃ ceramics have been investigated. XRD patterns, SEM images and Raman spectra have been used to discuss phase structure transitions and microstructure. The dielectric behavior has been also investigated by using the empirical law, the Curie-Weiss law and the spin-glass model. Results show

Download English Version:

<https://daneshyari.com/en/article/7887822>

Download Persian Version:

<https://daneshyari.com/article/7887822>

[Daneshyari.com](https://daneshyari.com)