

Accepted Manuscript

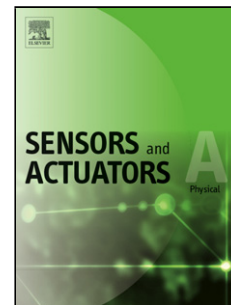
Title: Piezoelectric characteristics of PNN-PZT/Epoxy paint sensor according to the poling conditions

Authors: Dae-Hyun Han, Lae-Hyong Kang

PII: S0924-4247(17)30613-1
DOI: <https://doi.org/10.1016/j.sna.2017.12.005>
Reference: SNA 10492

To appear in: *Sensors and Actuators A*

Received date: 7-4-2017
Revised date: 1-11-2017
Accepted date: 4-12-2017



Please cite this article as: Han D-H, Kang L-H, Piezoelectric characteristics of PNN-PZT/Epoxy paint sensor according to the poling conditions, *Sensors and Actuators: A Physical* (2010), <https://doi.org/10.1016/j.sna.2017.12.005>

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 proof before it is published in its final 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.

Revised for 'SENSORS AND ACTUATORS A: PHYSICAL'

Piezoelectric characteristics of PNN-PZT/Epoxy paint sensor according to the poling conditions

Dae-Hyun Han^a and Lae-Hyong Kang^{a,*}

^a *Department of Mechatronics Engineering, and LANL-CBNU Engineering Institute-Korea, Chonbuk National University, 567 Baekje-daero, Duckjin-gu, Jeonju-si, Chonbuk 54896, Republic of Korea,*

* Corresponding author at: Tel.: +82-63-270-3372; fax: +82-63-219-5350

E-mail address: reon.kang@jbnu.ac.kr (L-H. Kang)

Highlights

The optimal poling conditions of the PNN-PZT/Epoxy paint sensor are acquired. The impact sensitivity of the PNN-PZT/Epoxy paint sensor is proposed.

The analysis of variance is considered to check the interaction between the poling time and poling electric field.

The poling temperature is fixed at room temperature.

Abstract. This paper deals with piezoelectric characteristics according to the poling condition in order to improve the disadvantage of conventional poling treatment and find optimal poling condition for the paint sensor. The paint sensor is composed with PNN-PZT ($\text{Pb}(\text{Nb},\text{Ni})\text{O}_3$ -

Download English Version:

<https://daneshyari.com/en/article/7134017>

Download Persian Version:

<https://daneshyari.com/article/7134017>

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