



Dielectric properties of ZnO/ZnNb₂O₆ composite for energy storage applications

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Graphical Abstract

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Abstract.

In this paper, the dielectric properties of synthesized ZnO/ZnNb₂O₆ composite were investigated. The solid-state synthesis method was used. Then the elaborated composite was characterized using X-ray diffraction and impedance spectroscopy. The XRD patterns confirm the co-existence of a hexagonal ZnO and an orthorhombic ZnNb₂O₆ phases. Then, the dielectric properties were investigated at room temperature (RT) in a wide range of frequencies (from 20 Hz to 1MHz). The composite Nyquist curve revealed the grain and grain-boundaries contributions. Indeed, theoretical fit evidenced high resistance, and low dielectric losses simultaneously with capacitive behavior of the composite. So this composite is promising to be used in super capacitor for energy storage applications.

Introduction

Energy storage will be more important in the future than at any time in the past. Thus, lithium batteries are one of the most useful material in this domain [1]. But this material had many inconvenient: pollutant, high cost. So we have to search new sources that are more efficient and more secure. In this topic, we are interested to the ZnO/ZnNb₂O₆ composite that can be used in this application thanks to the interesting properties of the ZnO and ZnNb₂O₆. In fact, the columbite (ZnNb₂O₆) has interesting properties: low cost [1], good dielectric properties [2] and its suitability to numerous applications such as microwave dielectric ceramics [3], gas sensing [4], photocatalytic applications [5]. This work is focused on ZnO/ZnNb₂O₆ composite prepared using solid state method. XRD data are analysed to identify the crystal phases. Then, Dielectric spectroscopy was used to investigate the dielectric properties of the composite. Theoretical models were used to fit the experimental data.

Materials and Methods

The powder of ZnO/ ZnNb₂O₆ composite was prepared by a solid state method. 1 mol.% Nb₂O₅ was added to 99mol.% ZnO powder. ZnO and Nb₂O₅ powders were provided by Sigma Aldrich. Then, the mixture was milled then calcinated (400 °C, 4 hours). After that, the mixed powder was milled for a second time then pressed into pellets (1 mm thickness, 8 mm diameter). Then, the pellets were sintered (900°C, 24 hours). Finally, the pellets were milled for a last time to obtain the ZnO/ZnNb₂O₆ composite powder. The structural data were investigated by an X-ray diffractometer (Panalytical X Pert PRO MPD) with CuK_α radiation ($\lambda = 1.5406 \text{ \AA}$), 2θ varying from 20° to 80°. Dielectric measurements were carried out using dielectric spectroscopy (Hewlett Packard 4284A LCR meter) from 20 Hz to 1MHz at room temperature (RT).

Results and Discussion

The XRD patterns (fig.1) evidenced the presence of two phases; ZnO and ZnNb₂O₆ with hexagonal (P6₃mc) and orthorhombic (Pbcn) structures, according to JCPDS files:(96-210-7060) and (31-5041) respectively. The sharpness of diffraction peaks

proves the good crystalline quality of the prepared powder. Fig.2 shows experimental and theoretical adjustment of the Nyquist plots of ZnO and ZnO/ZnNb₂O₆ composite, according to equations (2) and (3). It displays non-Debye type relaxation shape. Indeed, as noticed, the experimental data of composite

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