Dielectric properties of intercalated kaolinite.

Autorzy

Kazimierz Orzechowski

T. Słonka

J. Głowiński

Rok wydania

2006

Czasopismo

Journal of Physics and Chemistry of Solids

Numer woluminu

67

Strony

915-919

DOI

10.1016/j.jpcs.2006.03.001

Kolekcja

Naukowa

Język

Angielski

Typ publikacji

Artykuł

Streszczenie

Intercalation of kaolinite allows to locate guest polar molecules in the interlayer area. In the presented experiments, the kaolinite+potassium acetate, kaolinite+urea and kaolinite+*N*-methylformamide intercalates were investigated. An increase in electric permittivity at low frequencies is probably related to the interlayer water molecules. The increase in the high frequency permittivity and losses were explained as a movement of the polar intercalated molecules. The dielectric properties were discussed simultaneously with the results of thermogravimetric and X-ray experiments.

Adres publiczny

https://doi.org/10.1016/j.jpcs.2006.03.001

Strona internetowa wydawcy

http://www.elsevier.com