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TECHNOLOGICALLY-MODIFIED Cu0.1Ni0.8Co0.2Mn1.9O4 CERAMIC: POSITRON ANNIHILATION LIFETIME SPECTROSCOPY AND DEGRADATION STUDIES

The Cu0.1Ni0.8Co0.2Mn1.9O4 ceramics modified by NiO phase were investigated. It is established that the amount of additional NiO phase in these ceramics extracted during sintering play a decisive role. This effect is well revealed only in ceramics having a character fine-grain microstructure, while the monolithization of ceramics caused by great amount of transferred thermal energy reveals an opposite influence. The process of monolitization from the position of evolution of grain-pore structure was studied in these ceramics using positron annihilation lifetime spectroscopy.

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