

Determination of the kinetic parameters of an $\text{Li}_{0.7}\text{Ni}_{0.8}\text{Co}_{0.2}\text{O}_2$ mixed conducting electrode

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Abstract

An electrochemical galvanostatic intermittent titration technique (GITT) is described which combines both, transient and steady-state measurements to obtain kinetic properties of our compound, as well as thermodynamic data. The derivation of quantities such as chemical and component diffusion coefficients, the partial conductivity and the mobility is presented.