

**PREPARATION OF POLYPYRROLE/CUO NANOPARTICLES COMPOSITES
AND APPLICATION IN SUPERCAPACITORS ELECTRODES**

MOUSA Mohammed

An-Najah National University, Amman, Jordan

Abstract

Energy conversion and storage nowadays are very attractive because of the high increase in fuel prices as well as its environmental impacts. Supercapacitors are potential devices components to solve the energy storage problems which high power density and long life cycle. The main problem of the supercapacitors is their low energy density. Therefore; the researchers try to find novel materials that have high capacity such as conducting polymers/carbon nanotubes composites. In this work, polypyrrole (PPy) were be prepared, and then doped with copper oxide nanoparticles. However, different techniques were be used to characterize the product such as (XRD, SEM and TEM). After then, the new material were be applied as a supercapacitor electrode.

Keywords: Polypyrrole (PPy), nanoparticles, CuO

Author did not supply full text of the paper/poster.