

Effects of composition ratio and sulfite ions on redox reaction of PEDOT:lignin composite electrode

서동철[†], 박진희, 원재연, 박은지

호서대학교

(dcsuh@hoseo.edu[†])

The synthesis of conductive composite PEDOT:LGS was performed using pretreated lignin. We investigated the composite synthetic condition resulting from $\text{Na}_2\text{S}_2\text{O}_8$ as reaction initiator by electrochemical measurements. PEDOT:LGS ratio is also important for the electrical performance of PEDOT:LGS composites. When Na_2SO_3 is added for neutral sulfonation, the effect of the sulfite ions is examined on the matrix formation of conductive composite and the electrochemical energy storage.