

Polyoxyethylene intercalation in lamellar copper iron sulfide

Mujica, Carlos

Durán, René

Llanos, Jaime

Clavijo, Rudecindo

The insertion of polyethyleneoxide in a lamellar copper iron sulfide of formula CuFeS_2 by an exchange reaction of potassium from KCuFeS_2 with an aqueous solution of the polymer was performed. The characterization of the new compound by X-ray diffraction and IR absorption spectroscopy shows that the layer structure of the precursor has been retained and that the polymer adopts a zigzag configuration between the layers.