

Synthesis of copper-based nanomaterial and their assemblies for hydrogen storage

이순창, 이진배*, 이상문, 박성훈, 김해진
한국기초과학지원연구원
(jblee@kbsi.re.kr*)

Over the past years, numerous copper-based nanostructure materials was synthesized from copper salt solutions in presence of urea and a number of mineral or biomineral studies of basic copper(II) chlorides have been undertaken. $\text{Cu}(\text{OH})_2$ and their basic copper(II) salts, such as nitrate, carbonate(malachite), and chlorides, which are used as a precursor to prepare specific nanostructured copper oxide. In this study, we attempt to synthesis of copper-based microspheres for the hydrogen storage which consist of nanocrystal assemblies such as nanoplatelets, nanowires, nanoparticles and nanoribbons.