

# Controlled Synthesis of Porous Flowerlike $\text{Cu}_2\text{S}$ Microspheres with Nanosheets-Assembly

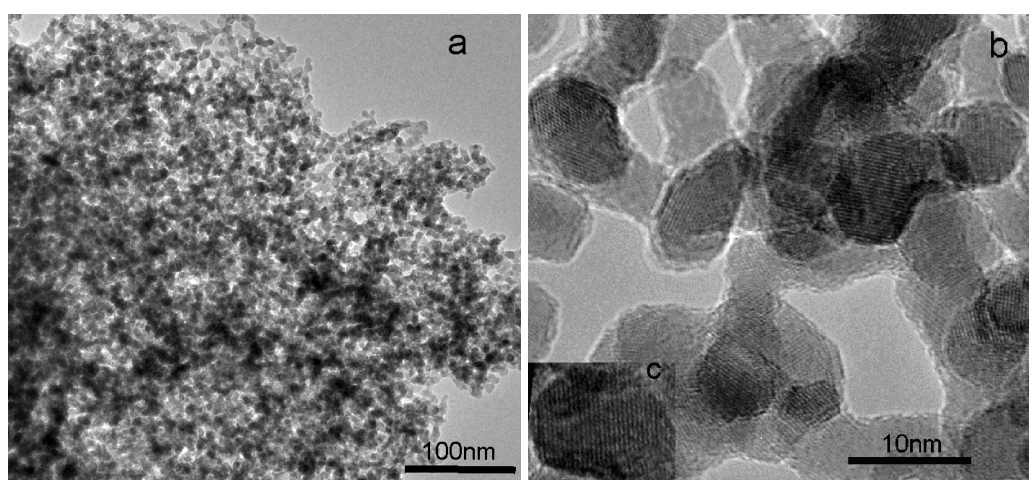
*Guang Li,<sup>a\*</sup> Mingyang Liu,<sup>a</sup> Huajie Liu<sup>b\*</sup>*

<sup>a</sup>School of Physics and Materials Science, Anhui University, Hefei, Anhui 230039, China

<sup>b</sup>Shanghai Institute of Applied Physics, Chinese Academy of Sciences, Shanghai 201800, China

E-mail: liguang1971@ahu.edu.cn; liuhuajie@sinap.ac.cn

**$\text{Cu}_2\text{S}$  nanoparticles were prepared by a traditional precipitation method:** 10 ml of  $\text{Na}_2\text{S}$  (0.0005mol) solution in distilled water was rapidly injected to 10 ml of  $\text{CuCl}$  (0.001mol) solution in  $\text{NH}_4\text{OH}$ . After stirring for 20min, the precipitate was filtrated, washed with distilled water and absolute ethanol.



**Figure S1** TEM images of  $\text{Cu}_2\text{S}$  nanoparticles at different magnifications.