

TINH THỂ NANO CUINS₂ CHẾ TẠO TRONG DUNG MÔI DIESEL.

Nguyễn Thị Minh Thủy¹,² Trần Thị Kim Chi¹,³ Nguyễn Quang Liêm

TÓM TẮT:

This paper presents the results on the synthesis and characterization of CuInS₂ nanocrystals synthesized in diesel. With increasing reaction-growth temperature and growth time the synthesized nanocrystals become bigger. For the reaction-growth temperature of 210-230°C and the growth time from 5 to 60 min, the obtained CuInS₂ nanocrystals emit at 628 to 712 nm, correspondingly. The absorption and photoluminescence studies of the synthesized CuInS₂ nanoparticle show clearly the quantum confinement.