Accepted Manuscript

Title: Structural, optical, magnetic and photocatalytic properties of Co doped CuS diluted magnetic semiconductor nanoparticles

Author: N. Sreelekha K. Subramanyam D. Amaranatha Reddy G. Murali S. Ramu K. Rahul Varma R.P. Vijayalakshmi

PII: S0169-4332(16)30742-5

DOI: http://dx.doi.org/doi:10.1016/j.apsusc.2016.04.003

Reference: APSUSC 33004

To appear in: APSUSC

Received date: 28-1-2016 Revised date: 15-3-2016 Accepted date: 1-4-2016

Please cite this article as: N.Sreelekha, K.Subramanyam, D.Amaranatha Reddy, G.Murali, S.Ramu, K.Rahul Varma, R.P.Vijayalakshmi, Structural, optical, magnetic and photocatalytic properties of Co doped CuS diluted magnetic semiconductor nanoparticles, Applied Surface Science http://dx.doi.org/10.1016/j.apsusc.2016.04.003

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



ACCEPTED MANUSCRIPT

Research highlights

- Cu_{1-x}Co_xS nanoparticles were synthesized via chemical co-precipitation method.
- Structural, band gap, magnetization and photocatalysis studies were carried out.
- All the doped samples exhibited intrinsic room temperature ferromagnetism.
- Effect of magnetic properties on photocatalytic activity was analyzed.
- CuS:Co nanoparticles may find applications in photocatalytic and spintronic devices.

Download English Version:

https://daneshyari.com/en/article/5356079

Download Persian Version:

https://daneshyari.com/article/5356079

<u>Daneshyari.com</u>