

Report on the Manuscript number Ms: ACSJ – 1617 Submitted to SDI International Journal.

The authors have synthesized nanocrystalline Zn(II) Cysteine complex in nanocrystalline form 54nm and 38nm by sonochemical method. On page 4, the last lines with respect to the synthesis of this complex are highly confusing.

Page 4 is corrected: We synthesized nanocrystalline Zn(II) cysteine complex with particle sizes about 54 nm, by sonochemical method, after thermal treatments in an autoclave, the same product obtained, just the particle sizes reduced to 38 nm.

Taking Zn(II) Cysteine as a precursor material, the authors have prepared microcrystalline ZnO. They refer to their SEM Fig.1 and Fig. 2 to indicate the hexagonal symmetry of the complex material. However, the Reviewer finds it difficult to see hexagonal symmetry of the particles from these figures.

I agree with reviewer comments and corrected manuscript depend on it.

They have given the hydrothermal treatment to the complex material to get micro crystalline ZnO in an autoclave. Do they mean the sonochemical apparatus explained in the experimental part as autoclave?

No, I clarified it in the manuscript, after sonochemical reaction, the Zn(II) cysteine complex obtained, then the product was put in a stainless-steel Parr bomb container (autoclave) for thermal decomposing of the complex, but thermal decomposition was not occurred just, the particle sizes reduced.

Then what were the pressure and temperature maintained for the method of preparation?

Atmospheric pressure and temperature maintained at 80 °C.

Hydrothermal method is supposed to give nanocrystals rather than microcrystals!

Based on TG/DTA analysis, production of ZnO probably occurs after 550 °C. As thermal decomposition was take placed during 2 h at 600 °C, the ZnO nano particles have been grown, and the particle sizes increased to micron sizes.

On page 5, the FTIR peak at 3417 cm^{-1} is said to indicate the presence of free $\nu(\text{NH}_2)$. Is it possible to have free (NH_2) ?

I agree with reviewer comments and corrected manuscript depends on it.

In Fig. 6 the authors must have indexed the XRD peaks.

Corrected: Assignment of Miller indices to ZnO microcrystals in Table 1