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Journal Name:	American Chemical Science Journal
Manuscript Number:	Ms_ACSJ_23356
Title of the Manuscript:	Chemical bath deposition of ZnSe thin films: Investigations of the growth conditions
Type of the Article	Original Research paper

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	This article requires more analysis of the data: 1- The authors did not explore if this material possess direct or indirect band gap, they should apply Tauc plot to get this answer. 2- Figures 2(a, b, c, and d) also show that the band gaps can be in the intercept with X axes At approx. 2.2 eV (that is why they should explore Tauc plot for better analysis. If you ignore the pot at 4 ev (Uper right hand in each figure , you can see that lower band gap. 3- What is E1 at line 90 in the article ?	You are right. Actually, E1 is called the Tauc equation. It could be used to determine either the direct or indirect of materials. For a direct transition (n=1), $(Ah\nu)^2 = k(h\nu - E_g)$ For an indirect transition, n=4, $(Ah\nu)^{1/2} = k(h\nu - E_g)$. In order to avoid any confusion caused, Figure 2a-2d will be removed, and the band gap values will be listed in Table . There are many researchers use this equation to calculate the band gap. [1] A.U. Ubale, A.S. Daryapurkar, R.B. Mankar, R.R. Raut, V.S. Sangawar, C.H. Bhosale. Electrical and optical properties of Bi2S3 thin films deposited by successive ionic layer adsorption and reaction (SILAR) method. Materials Chemistry and Physics, Volume 110, Issue 1, 15 July 2008, Pages 180-185. Please see Figure 8. [2] Ezema FI, Nnabuchi MN (2006) Growth and optical properties of chemical bath deposited MgCdS2 thin films. Journal of Research (Science) , Bahauddin



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		Zakariya University, Multan , Pakistan. Volume 17, No 2, pages: 115-126. Please see Figure 10. [3] Pistone A, Arico AS, Antonucci PL, Silvestro D, Antonucci V (1998) Preparation and characterization of thin film ZnCuTe semiconductors, Solar energy Materials and Solar Cells, volume 53, pages 255-267. Please see figure 10
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments		