



SDI Review Form 1.6

Journal Name:	Physical Science International Journal
Manuscript Number:	2015_PSIJ_17116
Title of the Manuscript:	Growth of CdS nanoparticles to fabricate Schottky barrier
Type of the Article	Original Research Article

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:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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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	<p>The manuscript is poor written such us: dSSchottky; Au/nanoCdSSchottky (space between the words); From measurements, the values of barrier height, donor concentration are obtained. Replaced by: the values of barrier height, donor concentration are obtained by experiment results.</p> <p>TEM JEOL JEM200 and VIS should given their abbreviations.</p> <p>The authors should given more detailed of figures 1 to 10.</p> <p>The authors should given more detailed of Eqs given in the manuscript..</p> <p>The coefficient η is very greater than 1, can you explain why this difference.</p> <p>Can you given the value of current I_s</p> <p>I have not found that this reference [14] discusses the conduction band for CdS. They (authors) need to review the reference.</p> <p>The convulsion and results and discussion section should rewritten.</p>	<p>Thank you very much for the comments. We have modified the manuscript according to your instruction as much as possible. The corrected part is highlighted in the manuscript.</p> <p>1.CdSSchottky; Au/nanoCdSSchottky is modified CdS Schottky ; Au/n-CdS Schottky throught the manuscript</p> <p>2. 'From measurements, the values of barrier height, donor concentration are obtained.'</p> <p>Replaced by: the values of barrier height, donor concentration are obtained by experiment results (line 41)</p> <p>3.TEM replaced by :Transmission Electron Microscope (line 48)</p> <p>VIS replaced by : visible (line 49) (JEOL JEM 200 is model no).</p> <p>4.Some details from figure 1 to 10 has been included in manuscript with highlight</p> <p>5. The possible reason why η is very greater than 1 is given and some results of previous work of different researchers have also been given.</p> <p>The ideality factor is determined to be</p>



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		<p>2.19. Which is greater than typical value between 1 to 2 [30]. But the values of ideality factor greater than 2 is also possible [31]. Patel et al found ideality factor of Au/n CdS Schottky barrier 1.8, 6.0 [14]. Ideality factor greater than 2 has been obtained with Schottky devices made of nanostructures. An oxide layer may be present between semiconductor and metal [32].</p> <p>6. The value of I_s is given in line 157</p> <p>7. The reference is changed to no. 13 for conduction band of CdS. (line 132)</p> <p>8. The results and Discussion section is rewritten.</p> <p>Thanking you very much</p>
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments		