



SDI Review Form 1.6

PART 1:

Journal Name:	Physical Science International Journal
Manuscript Number:	2013_PSIJ_4768
Title of the Manuscript:	Structural and Optical Properties of Polymer Blend Nanocomposites Based on Poly (vinyl acetate-co-vinyl alcohol)/TiO₂ Nanoparticles
Type of the Article	Research paper

General guideline for Peer Review process is available in this link:

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

- This form has total 7 parts. Kindly note that you should use all the parts of this review form.



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PART 2: 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)
<u>Compulsory</u> REVISION comments	The manuscript entitled “ Structural and Optical Properties of Polymer Blend Nanocomposites Based on Poly (vinyl acetate-co-vinyl alcohol)/TiO₂ Nanoparticles ” has been reviewed carefully and it has been concluded that this paper presents interesting information. It is recommended to accept the paper for publication in Physical Review & Research International journal with minor changes.	
<u>Minor</u> REVISION comments	<p><u>Comments to the Authors :</u></p> <p>- ABSTRACT</p> <p><u>Line 3 :</u> Write: The Scanning Electron Microscope and Energy Dispersive X-Ray Spectrometer (SEM/EDS).....</p> <p><u>Line 5 :</u> Write: The composites were characterized by Fourier Transform Infrared (FTIR), SEM, X-ray diffraction (XRD) and ultraviolet (UV) and visible (Vis) Spectrophotometry.</p> <p><u>Line 15 :</u> Write: the resonant coupling between UV-Vis light.....</p> <p><u>Line 18:</u></p>	<p>ABSTRACT</p> <p><u>Line 3:</u> The correction has been effected and highlighted in yellow colour.</p> <p><u>Line 5:</u> The correction has been effected and highlighted in yellow colour.</p> <p><u>Line 15:</u> The correction has been effected and highlighted in yellow colour.</p> <p><u>Line 18:</u></p>



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	<p>Define : NPs content</p> <p><u>- Uncertainties data to review:</u></p> <p><u>Line 200:</u> ($2\theta = 21.9147^\circ$, 22.4579, 22.78578 and, 22.8024</p> <p><u>Line 272:</u> A much significant absorbance of 3.00 % (2.997%), the 272 maximum,.....</p> <p><u>Line 264:</u> 1.39% (1.385%)</p> <p><u>Line 274:</u> 2.71% (2.708) at 800nm. The same for the values, see the lines : 196, 197, 201, 281, 282</p> <p>- uncertainties data to review: The average crystallite size corresponding to structural order of the pattern determined from integral breadth of the peaks according to Scherrer's equation [28] have values ranging from $1687.93 \pm 290\text{nm}$ to $4589.04 \pm 130\text{nm}$</p> <p><u>- Figures</u> - The authors have to give the figures which the scales are readable; The scales of all figures are too small and difficult to read.</p> <p><u>- References</u> - The authors have to write all references in the Physical Review & Research International journal format.</p>	<p>Nps has been defined as Nanoparticles and highlighted in yellow.</p> <p>- All the corrections have effected and highlighted in yellow.</p> <p><u>Figures:</u> The qualities of all the figures have been improved.</p> <p><u>References:</u> The references have been put in the correct order.</p>
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<u>Optional/General</u> comments	<ul style="list-style-type: none">- I find that the values of some uncertainties are very small us (see the line 312). I would like to know how the authors have calculated these uncertainties data.- Why the authors have used all these different spectroscopy techniques? What does each spectroscopic technique bring to this study?	<ul style="list-style-type: none">-The uncertainties were calculated using the usual statistical approach leading through standard deviation to the standard error.-All the spectroscopic techniques have been employed to elucidate the structure and microstructure of the polymer nanocomposites and correlate these with the optical properties.