

### Review Form 3

Journal Name:	<a href="#">Asian Journal of Physical and Chemical Sciences</a>
Manuscript Number:	Ms_AJOPACS_127155
Title of the Manuscript:	Performance Analysis and Characterization of Natural Dye-Sensitized Solar Cells Fabricated by Dr. Blading Technique.
Type of the Article	

#### **General guidelines for the 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 guidelines for the Peer Review process, reviewers are requested to visit this link:

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#### **Important Policies Regarding Peer Review**

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#### PART 1: Review Comments

<b>Compulsory</b> REVISION comments	<b>Reviewer's comment</b>	<b>Author's Feedback</b> (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<b>Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.</b>	In this manuscript, the authors report the characterization of natural dye-sensitized solar cells fabricated for their performance evaluation. Titanium oxide (TiO <sub>2</sub> ) thin films sensitized with the dyes of the almond and copper leaves extracted using ethanol and water are employed. The structural and optical features of the materials are also studied.	
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>	The title should not include "Dr. Blading Technique", instead should have information about material and its synthesis.	
<b>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</b>	<b>Looks good</b>	
<b>Are subsections and structure of the manuscript appropriate?</b>	<b>Yes</b>	
<b>Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.</b>	The results and analysis are good.	
<b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b> :	The introduction section should be comprehensive and should include more diverse references. Some valuable reports are listed here (authors should consider them in the introduction part): Inorganic Chemistry Communications 153 (2023) 110754; Ceramics International 50 (2024) 37057; Optik 274 (2023) 170565; FlatChem 36 (2022) 100452; Materials Research Express 4 (2017) 125902; Applied Physics Letters 111 (2017) 051106; Moreover, reference (Optical Materials 110 (2020) 110405; Applied Optics 57 (2018) 1296) should be added for optical parameters including Tauc's relation. Also, reference (Journal of Alloys and Compounds 555 (2013) 263) should be added for structural parameters including Scherrer formula.	
<b>Minor</b> REVISION comments	The writing (scientific terminologies, technical, grammatical and typos) of the manuscript should be improved.	
<b>Is the language/English quality of the article suitable for scholarly communications?</b>		
<b>Optional/General</b> comments	1. In Fig.8, indexing of diffraction peaks is incorrect. All the obvious unindexed peaks should be indexed and hkl should be mentioned in "( )" brackets. 2. In SEM images, scale bars are not clear. 3. Captions of all Figures are not appropriate.	

#### PART 2:

	<b>Reviewer's comment</b>	<b>Author's comment</b> (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)
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

#### Reviewer Details:

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