



SDI Review Form 1.6

Journal Name:	<u>British Journal of Mathematics & Computer Science</u>
Manuscript Number:	Ms_BJMCS_31714
Title of the Manuscript:	Study the Important Parameters Affecting Performances of P3HT:PCBM Organic Solar Cells
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 <i>(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)</i>
<u>Compulsory</u> REVISION comments	Below are some of the comments: Authors should write PCBM, PSS, PEDOT, P3HT etc in full form first before using abbreviation. No details on sample preparation and organic solar cell fabrication. Experimental method is fundamental for the reproducibility of the experiment and must be stated in clear and detailed form. Subsection 2.3: Authors wrote that the deposited P3HT:PCBM was annealed at 130 °C for 30 min. Any particular reason for the chosen annealing temperature and time? Equation 6: What is N_A? Avogadro's number? Subsection 2.3: Effect of solvent annealing The sentence "Solar cells employ the slow-solvent-vapor treatment blend films as the active layer exhibit the enhanced power conversion efficiency that of as-cast and fast thermal annealing blend films." How? What solvent was used? Page 4 Line 109: "...observed for the G-PEDOT:PSS devices due to improved charge collection compared to PEDOT:PSS devices." How? What is G-PEDOT? Fig. 2 shows the absorption spectra of P3HT:PCBM layers for different temperatures. But there is no explanation/discussion about the figure. Can the authors discuss the spectra obtained?	



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	Page 4 Line 121 & 122: “..higher performances are obtained when the concentration of the blend is 70 mg/ml....” Not clear regarding the concentration of the blend. What could be the reason behind higher performance? The word “crystallinity” is wrongly spelled as ‘cristallinity’. Plagiarism issue: This manuscript has similarity index of 49 % based on turnitin software.	
Minor REVISION comments		
Optional/General comments		

Reviewer Details:

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