# Author’s Response to the Review Comments

***Journal* : Jurnal Elektronika dan Telekomunikasi**

*Title of Paper* : Fabrication of Hybrid Polymer Solar Cells By Inverted Structure Based on P3HT:PCBM Active Layer

*Authors* : Shobih, Rizky Abdillah, and Erlyta Septa Rosa

We appreciate the time and efforts by the editor and referees in reviewing this manuscript. We have addressed all issues indicated in the review report, and believed that the revised version can meet the journal publication requirements. We have included the line numbers in the revised manuscript to help the reviewers identify our changes.

| **Comment** | **Response** | **Location of Response in Revised Manuscript** |
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| **EDITOR’S COMMENTS** |  |  |
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| **REVIEWER 1 COMMENTS** |  |  |
| The number "3" on P3HT on the title should not be written in subscript | We have revised the title | Title in English and Indonesian, page 1, line 2 and 4 |
| The authors should add an explanations on the introduction section regarding the reason why they wanted to investigate the effect of thermal annealing on the active layer | The reason, why thermal annealing on the active layer is investigated, has been added | Introduction, page 2, column 2, line 5 |
| The authors did not provide any reasons (or citations) why they use different spin coating settings for the deposition of each layer. Did the authors check the film thickness after each spin coating? | Because of limited budget, the thickness of each layer after spin coating is not measured. Sometimes, it is based on literatures or pre study in obtaining the optimum layer. We have added citations | Experiment, page 2, column 2, line 38 and line 49 |
| The abbreviation of IPCE in page 3 should be added when it appears for the first time on the text. | We have added the abbreviation of IPCE | Experimental, page 3, column 1, line 21. |
| The authors should explain why there was was a shift on the peak of the IPCE curve from a shorter wavelength to longer wavelength with the | We have given short explanation regarding the shift of IPCE curve | Results and Discussions, page 3, column 2, line 41 |
| In page 4, the authors mentioned "In this study, we use heat treatments to control the morphology". However, the authors did not show any results on how the annealing process affected the morphology of the active layer. If the authors cannot produce any evidence on this (such as SEM), then perhaps they can cite some published works that also employed similar materials and annealing condition with the ones used in this work | We have added discussion as a comparison with another study which used similar materials and annealing condition where the result is agree with ours | Discussions, page 4, column 1, line 22 |
| In Figure 2, what do the little grey boxes represent? Are they the tabbings? Additional labels should be added into Figure 2 | Additional label for the tabbings have been added | Figure 2 |
| Please follow the format accordingly, all of the journal names should be written in italics | The names of journal have been written in italics | References |
| Please check the consistency of the bibliography. For example, if the authors want to put month and year, then all of the references should have month and year (ref. no. 6, 8, 10-14, 16-22 only have year and no month) | Because of some cited journals have no month of publication, for the consistency, the month of publication for the journals in References is omitted | References |
| Please revise Ref. no. 13 because it has different format to the rest of the journal references. | Reference no. 13 has been revised in accordance with the reference format | References |
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| **REVIEWER 2 COMMENTS** |  |  |
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| Kalimat awal dalam abstrak bahasa inggris belum diterjamahkan dalam abstrak bahasa indonesia dan ada yang perlu dirubah dengan tata letak frasa pada abstrak berbahasa inggris khusus agar tidak terjadi kesalahpahamn arti. | Kami telah melakukan perbaikan terjemahan kalimat awal abstrak bahasa inggris, ke dalam abstrak bahasa Indonesia dan telah memperbaiki susunan frasa bahaa Inggris | Pada bagian awal Abstrak bahasa Inggris dan Indonesia |
| Pada kesimpulan dijelaskan mengenai efisiensi solar cell yang diperoleh kecil, hal tersebut disebabkan oleh kekasaran lapisan ZnO, Dapatkah kiranya diberikan adata yang signifikan berapa nilai kekasaran permukaan lapisan buffer ZnO tersebut yang diperlukan agar performance divais meningkat? Selain kekasaran mungkin ketebalan lapisan ZnO tersebut perlu dikaji ulang dengan variasi ketebalan. Oleh karena itu dapatkah ketebalan ZnO yang dilaporkan dalam manuskrip ini dapat ditambahkan? | Mengingat adanya keterbatasan dana penelitian, maka uji kekasaran dan ketebalan ZnO yang masing-masing menggunakan AFM dan SEM tidak dilakukan. Namun demikian hal ini merupakan masukan yang bagus untuk penelitian selanjutnya sehingga didapatkan performansi devais yang lebih baik. Ada tambahan dalam kesimpulan | Kesimpulan, pada kalimat terakhir |
| Gambar tolong dibuat jelas dengan warna hitam, terutama untuk judul axis (x dan y), number dan juga legend. | Gambar sudah diperbaiki dengan warna hitam terutama untuk judul axis (x dan y), number dan juga legend | Gambar 3, 4, dan 5 |
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