

Dear ICIC Express Letter Editor,

Thank you for considering our paper entitled by 'Design of Automatic Control for Surface Cleaning Systems of Photovoltaic Panel' with Author(s): Syafaruddin., Faizal Arya Samman, Muslimin. and Satriani Latief in the 12th International Conference on Innovative Computing, Information and Control (ICICIC2017), to be held in Kurume, Japan, August 28–30, 2017. We also very pleased to know that this paper is selected for publication in *ICIC Express Letters, Part B: Applications* (ICIC-ELB).

We would like to thank to reviewers for the beneficial comments and suggestions in order to improve the quality of the paper. We have revised our paper following the reviewer comments as shown in the bold font as follows:

-
- 1) In Introduction, strong points of this proposed design should be further stated to better show academic importance of this paper; organization of this whole paper is supposed to be provided in the end.

The prominence design of cleaning system of PV panel surface has been presented in the Introduction part regarding the purpose to gain much output energy from, the wide range methods in terms of discussion of benefits and disbenefits. Description in the introduction part has also being improved with adding the most recent topic regarding the cleaning surface methods in order to show the academic importance of this paper. In addition, the organization of the paper has been added to make it easy to follow.

- 2) In Figure 3, is "151,2" decimal? If so, the comma should be a dot; this also goes to numbers in the last column in Table 1. Please check.

Figure 3 has been corrected. Also the decimal in Table 1 is revised.

- 3) Some unidentified characters can be seen in Figure 4, such as "Penggerak" and "Mikrokontroler" , and they should be rewritten in English.

These words have been correctly written in English.

- 4) In the testing design, only results when an amount of 12.82g dust is used are listed; how can we know the values listed in Conclusions? They have not been given in Section 4.

Some values provided in conclusion have been matched with the explanation in section 4. Additiional measurement results is presented in Table 3.

- 5) Some defects in English presentation can be seen, "energi" is improper, some sentences show subject-verb disagreement, such as the first sentence on Page 2, and some sentences are not structured right, such as the last sentence on Page 1 and the 5th sentence in Section 3.

These parts have been corrected. Thank you for your kind benefits comments.

- 6) References are out of date, as the newest one is in 2013, and more updated studies should be cited.

New references with the most recent discussion regarding the cleaning surface of PV panel have been added in the paper. For instance: “To improve the properties of anti-dust for PV modules, the concept of self-cleaning has also been proposed for many years to overcome the unstable traditional cleaning systems in nature environment. Surface cleaning systems have been significantly concerned in order to gain much output power from the cleaned PV panel surface. Self-cleaning coating systems are the most proposed technique by utilizing, for instance superhydrophobic surface based on Aluminium oxide layer [17], self-cleaning and antireflective properties of hydrophilic nanostructured glass substrates [18], novel super-hydrophilic coating with high stability and corrosion resistance [19] and utilization of TiO₂–SiO₂ nanostructured coatings [20]. However, these proposed methods of self-cleaning systems seem very expensive due to exclusive material utilization, very complex chemical compound, the additional materials are probably contained of dangerous chemical substances and no guarantee of significant increase in efficiency energy conversion”. Please find other new references in the paper.

- [17] S. Sutha, Sisira Suresh, Baldev Raj, K.R. Ravi: ‘Transparent alumina based superhydrophobic self-cleaning coatings for solar cell cover glass applications’, *Solar Energy Materials and Solar Cells*, Vol. 165, pp. 128-137, June 2017
- [18] Mridul Sakhuja, Jaesung Son, Hyunsoo Yang, Charanjit S. Bhatia, Aaron J. Danner: ‘Outdoor performance and durability testing of antireflecting and self-cleaning glass for photovoltaic applications’, *Solar Energy*, Vol. 110, pp. 231-238, December 2014
- [19] Hong Zhong, Yan Hu, Yuanhao Wang, Hongxing Yang: ‘TiO₂/silane coupling agent composed of two layers structure: A super-hydrophilic self-cleaning coating applied in PV panels’, *Applied Energy* (In Press), Available online 26 April 2017
- [20] Anja Soklič, Mino Tasbihi, Marko Kete, Urška Lavrenčič Štangar: ‘Deposition and possible influence of a self-cleaning thin TiO₂/SiO₂ film on a photovoltaic module efficiency’, *Catalysis Today*, Vol. 252, pp. 54-60, September 2015
-

99+

Compose

Mail

Inbox 4,338

Chat

Starred

Snoozed

Spaces

Sent

Drafts

Meet

More

Labels

syafaruddin@g.u... 2,416

ICICIC2017-003 Paper Proof!

External Inbox x syafaruddin@g.unhas.ac.id x



fangwang <fangwang@icicelb.org>
to me, office

Mon, Aug 14, 2017, 4:06 PM

Dear Prof. Syafaruddin,

I am glad to inform you that your accepted paper (ICICIC2017-003) has been edited for the publications in *ICIC Express Letters, Part B: Applications (ICIC-ELB)*. It is extremely important that you go over the galley proof (especially the highlighted parts) very carefully for errors and any necessary changes such as updating status of papers in the reference (volume, issue, page numbers, year). At this stage, only minor changes can be accepted, and any changes should be marked in the attached PDF file. Proof must be received within **Three Days** from the date of this letter by E-mail: office@icicelb.org. Please reply to us even if there is no change needed. If we do not hear from you within **Three Days**, your paper may not be published as scheduled. Thanks for your cooperation.

--
Kind Regards,

Ms. Fang Wang

On behalf of Dr. Yan SHI
Editor-in-Chief, ICIC-ELB
Professor, Center for Liberal Arts, Tokai University
9-1-1, Toroku, Kumamoto 862-8652, Japan
Tel.: 81-96-386-2666, Fax: 81-96-386-2666
E-mail: office@icicelb.org