

## **Bukti Submission (sebagai koresponden)**

Judul Paper :

Excellent Way To Prepare Conductive Glass Using Simple Glass For Promising Solar Cells

Bukti Corresponding Substantif berisi

1. Komentar dari reviewer terkait substantif paper
2. Bukti respon author terhadap hasil review

Bukti print email berisi

1. Bukti submit ke jurnal
2. Bukti persetujuan Jurnal terhadap hasil review
3. Bukti accepted

# Bukti Corresponding Substantif

Judul Paper :

Excellent Way To Prepare Conductive Glass Using Simple Glass  
For Promising Solar Cells

Reviewer's assessment (Round 1)

Code paper : KAoO-6

Title	EXCELLENT WAY TO PREPARE CONDUCTIVE GLASS USING SIMPLE GLASS FOR PROMISING SOLAR CELLS (Harsasi, Handoko, Hamami, Faidur, Ahmadi)
Abstract	Good and informative
Introduction	Good, short but clear and informative
Methodology	Good because this is a new procedure to prepare conductive glass
Results	Very good
Discussion	Good enough
How well is the paper integrated with current research :	Well done
Bibliography/References:	Complete enough and support this topic
Adequacy of literature review	Update enough
Figures:	Very good
Tables:	Just only one but informative
Overall evaluation on the paper:	Your english should be improved and can be published in journal of International because this research give excellent way or alternative way to prepare conductive glass using simple glass and low cost and result the same with FTO glass that is high cost economically

## Response to reviewer comments (Round 2)

Title : EXCELLENT WAY TO PREPARE CONDUCTIVE GLASS USING SIMPLE GLASS FOR PROMISING SOLAR CELLS

Code paper: KAOO-6

Reviewer's comments	Responses
Abstract " <i>The thickness of TiO<sub>2</sub> on glass surface as semiconductor</i> ". The meaning is not clear.	Has been changed : The thickness of TiO <sub>2</sub> acting as a semiconductor
Abstract " <i>This research investigated the excellent method to obtain a promising conductive glass of solar cells using thin layer of TiO<sub>2</sub> as semiconductor covered on simple glass from soda lime glass commercial. The obtained conductive glass has demonstrated higher efficiency than FTO glass (Fluorine Tin Oxide) which has been used in solar cells.</i> " The meaning is not clear.	Has been changed : This research advances an excellent method to obtain a promising conductive glass for solar cells fabrication through coating a simple commercial soda lime glass by a thin layer of TiO <sub>2</sub> . The product described shows higher efficiency than that of fluorine thin oxide glass which is currently used in solar cells.
Introduction " <i>Many researcher pay the high attention to invent suitable techniques for the production of the best component of solar cell [2-4]. One of the main improvisation that can be done is modification conductive glass of solar cell using thin layer semiconductor covered into affordable glass plate. Since the discovery of nanostructured dye-sensitized solar cell (DSSC), many experiments have been done to improve the efficiency of the solar cell</i> ". Need paraphrasing.	Has been changed : Many researchers work on inventing suitable techniques for the production of the best solar cell component [2 - 4]. Many experiments have been done to improve the efficiency of the solar cell since the discovery of the nanostructured dye-sensitized solar since the discovery of the nanostructured dye-sensitized solar cell (DSSC). One of the solutions is to prepare conductive glass through coating an affordable glass plate by a thin semiconductor layer. This approach provides the opportunity to have cheaper solar cells by using a small amount of materials and low-cost fabrication technologies [5, 6].
The objective in introduction should be clear and to the point	Has been changed : The aim of this study is to prepare conductive glass by deposition of a thin layer of titanium dioxide on a plate of simple commercial soda lime glass. The product expected can decrease the costs of fabricating solar cells.
Experimental for coating of simple glass with TiO <sub>2</sub> sol as conductive glass not clear enough	Has been changed : Titanium dioxide sol was dropped onto the glass plate. The droplets were leveled through swiping the surface by another glass plate. The sample prepared was dried in an oven for 10 min at 80 °C. The procedure described is performed three times on the same glass plate. Then the latter was calcinated for 2 h at 450 °C [8]. The preparation procedure is illustrated in Fig. 1.
The discussion about SEM image is not clear.	Has been changed :

	<p>The thin TiO<sub>2</sub> layer obtained is characterized by SEM and the results are shown in Fig. 4. It is evident that surface pores are formed. The pore diameter is diverse – it ranges between 874.2 μm and 8,870 μm. The pores formed increase the surface area and contribute to the solar cell dye (Dye Sensitized Solar Cells) attachment. This condition is very advantageous because the increase of the dye attached to the semiconductor results in increase of solar cell capability to capture solar energy and generate a larger electric conversion [11].</p>
<p>The explanation Fig.5 and 6 is ambiguous.</p>	<p>Has been changed :  Figs. 5 and 6 show the current and voltage obtained using both working electrodes. The current and voltage recorded on the conductive glass developed in the course of this research have higher values from day to day than those found using FTO glass. The highest values of the current and the voltage refer to 48 mA and 0.5 V. This indicates that the glass advanced has a potential to be used as conductive glass in a solar cell.</p>
<p>Conclusion makes more to the point.</p>	<p>Has been changed :  The research reported shows that the thin layer of titanium dioxide deposited on a plate of commercial soda lime glass plate has an anatase structure and pores providing a high surface area, which in turn facilitate dye sensitizer binding. The conductive glass described has an efficiency of 0.00169 %, which is higher than that of FTO glass.</p>

## **Bukti Print Email**

Judul paper :

Excellent Way To Prepare Conductive Glass Using Simple Glass For Promising Solar Cells



Harsasi Setyawati &lt;harsasi85@gmail.com&gt;

---

**ACCEPTANCE NOTIFICATION & CONFIRMATION LETTER**

1 pesan

---

**Seminar Internasional Kimia Universitas Airlangga** <cosci@fst.unair.ac.id> 11 September 2016 pukul 08.15  
Kepada: Abdulloh Doel <doelabd71@gmail.com>, afafi2001@yahoo.com, ahmadi-j-permana@fst.unair.ac.id, alfaakustia@fst.unair.ac.id, krisnosuwono@yahoo.com, anceu.murniati@gmail.com, Anp.unair@yahoo.com, anisnismayanti@yahoo.co.id, a.safiitri@ub.ac.id, atinanies@gmail.com, bahaastri@gmail.com, bampito.fmipa@unej.ac.id, dsimatup@gmail.com, d.arifa@sci.ui.ac.id, handoko.darmokoesoemo@gmail.com, dwiyukarlina@gmail.com, dwiseptianw@gmail.com, epryscano@gmail.com, subaweh@yahoo.com, fentisabian@gmail.com, wifadek@gmail.com, harsasi85@gmail.com, hartati@fst.unair.ac.id, helmi-yt@ui.ac.id, herys08032002@yahoo.com

Dear Author,

Thank you very much for your participation and contribution to the “**Collaboration Seminar of Chemistry and Industry**” (**COSCI International Conference**). We are pleased to inform you that your title of the manuscript has been accepted to join in this conference. **Congratulations**.

Please submit your abstract and full paper **no later than September 18, 2016** via login in <http://cosci-unair.com/> or via email at [cosci@fst.unair.ac.id](mailto:cosci@fst.unair.ac.id). Also the format of abstract and full paper should follow the template. You can download abstract and full paper template in our website at <http://cosci-unair.com/>. The selected paper, will be published in **Journal of Chemical Technology and Metallurgy** (indexed by SCOPUS) with additional cost.

To facilitate the data, please fill the “**Confirmation Letter**” which is attached in this email.

Thank you for your kind cooperation and see you in COSCI 2016.

Sincerely yours,

Scientific Committee of COSCI 2016

**CONFIRMATION LETTER COSCI.docx**

159K



Harsasi Setyawati &lt;harsasi85@gmail.com&gt;

---

**Important Information from COSCI 2016**1 pesan

---

**Seminar Internasional Kimia Universitas Airlangga** <cosci@fst.unair.ac.id> 1 November 2016 pukul 04.59  
Kepada: bampito.fmipa@unej.ac.id, masfufah\_habibah@yahoo.com, Miratul Khasanah <miratulkhasanah@gmail.com>, miftakhuljchemistry@gmail.com, Anp.unair@yahoo.com, usreg.sh@gmail.com, srimarsih@yahoo.com, hermansyah unsri <hermansyah@unsri.ac.id>, purkan <purkan@yahoo.com>, purkan purkan <purkan@fst.unair.ac.id>, wuryanto.hadinugroho@gmail.com, sitiwafiroh@yahoo.com, Harsasi Setyawati <harsasi85@gmail.com>, ahmadi jaya permana <ahmadi-j-permana@fst.unair.ac.id>, Nike Prilil <nike.prilil05@gmail.com>, cahaya dani Intan <intancahayadani@gmail.com>, Pratiwi <tiwi2000@hotmail.com>, krisnosuwono@yahoo.com, muji\_harsini@yahoo.co.id, alfa akustia widati <alfaakustia@fst.unair.ac.id>, elika\_joe@yahoo.co.id, naniksa2000@gmail.com, hartati hartati <hartati@fst.unair.ac.id>, hartatidodit@yahoo.com

Dear author,

With this email I would like to inform you that:

1. The editor of the Journal of Chemical Technology and Metallurgy (JCTM) has requested a paper to be published. Therefore the author requested ON TIME to collect the revised manuscript (maximum 4 November 2016). If the manuscript sent late than November 4, the manuscript **will not be processed in JCTM or proceeding**.
2. It is important the figures of the manuscript to be sent in separate files as JPG or TIFF, herein I send a sample journal of JCTM as template.
3. Payment of journal waiting for confirmation JCTM editor.

Best Regards,  
**CoSCI 2016 committee**

---

 **2\_P\_Miladinova (JCTM).pdf**  
561K





Harsasi Setyawati &lt;harsasi85@gmail.com&gt;

---

**Paper Review Result [ COSCI 2016 ]**

1 pesan

---

**Seminar Internasional Kimia Universitas Airlangga** <cosci@fst.unair.ac.id>  
Kepada: Harsasi Setyawati <harsasi85@gmail.com>

21 Oktober 2016 pukul 10.49

Dear Author

Thank you very much for your participation and contribution to the 1<sup>st</sup> COSCI 2016. We are pleased to inform you that your manuscript has been accepted in:

**Journal of Chemical Technology and Metallurgy,**


With minor revisions. Congratulations.

Please find reviewer's detailed comments in the attached file. Also the format of article should follow the template. You can download full paper template in our website at: <http://cosci-unair.com>

Please revised your paper and send it to us no later than **November 10, 2016** at the following email addresses: [m.zakki.fahmi@fst.unair.ac.id](mailto:m.zakki.fahmi@fst.unair.ac.id). Please write in the EMAIL SUBJECT "your name, code paper, proceedings or journal" to facilitate the committee.

Best Regards,  
**CoSCI 2016 committee**

---

**2 lampiran** **template CoSCI2016.docx**  
23K **KAoO-6, Harsasi.doc**  
34K



Harsasi Setyawati &lt;harsasi85@gmail.com&gt;

---

**paper in JCTM**

3 pesan

---

**Bogdana Koumanova** <journal@uctm.edu>  
Kepada: harsasi85@gmail.com  
Cc: purkan purkan <purkan@fst.unair.ac.id>

13 Juni 2017 pukul 20.43

Dear Harsasi Setyawati,

Your manuscript is in preparation for publication in Journal of Chemical Technology and Metallurgy. It needs minor revision as follows:

- write the full names of all authors;
- the text should not be in two columns;
- there is no information about the XRD and SEM apparatus;
- the explanation of Fig. 4 is not clear.

I am waiting for the revised manuscript soon.

Kind regards

Prof. Bogdana Koumanova

Editor-in-Chief

---

**Harsasi Setyawati** <harsasi85@gmail.com>  
Kepada: Bogdana Koumanova <journal@uctm.edu>  
Cc: purkan purkan <purkan@fst.unair.ac.id>

20 Juni 2017 pukul 23.11

Dear Editor of Journal of Chemical Technology and Metallurgy,  
Herewith I send you my revised paper. Please find the file in attachment.  
Thank you.

Best regards,

Harsasi Setyawati, S.Si, M.Si  
Lecturer of Inorganic Chemistry,  
Department of Chemistry,  
Faculty of Science and Technology,  
Airlangga University

[Kutipan teks disembunyikan]

---

**2 lampiran** **JCTM\_ Harsasi Setyawati\_revise.docx**  
995K **CONFIRMATION of AUTHOR.docx**  
12K

---

**Harsasi Setyawati** <harsasi85@gmail.com>  
Kepada: Ahmadi Jaya <ahmadi.chem05@gmail.com>, Ahmadi Jaya <ahmadi-j-permana@fst.unair.ac.id>

21 Juni 2017 pukul 06.20

Sent from my iPhone

Begin forwarded message:

[Kutipan teks disembunyikan]

---

**2 lampiran**

 **JCTM\_ Harsasi Setyawati\_revise.docx**  
995K

 **CONFIRMATION of AUTHOR.docx**  
12K



Harsasi Setyawati &lt;harsasi85@gmail.com&gt;

---

**OKE (confirmation of English correction of Harsasi Setyawati)**

1 pesan

---

**Harsasi Setyawati** <harsasi85@gmail.com>

1 Agustus 2017 pukul 13.57

Kepada: Bogdana Koumanova &lt;journal@uctm.edu&gt;

Cc: purkan purkan &lt;purkan@fst.unair.ac.id&gt;, purkan fikih &lt;purkan@yahoo.com&gt;

Herein I give my confirmation about my English correction from Editor of JCTM. I approve all of your correction (in red colour).

Many Thanks.

Harsasi Setyawati, S.Si, M.Si  
Lecturer of Inorganic Chemistry,  
Department of Chemistry,  
Faculty of Science and Technology,  
Airlangga University

**17-29 Setyawati sled English.docx**

997K



Harsasi Setyawati <harsasi85@gmail.com>

---

## OKE for preprints of Harsasi Setyawati's paper

1 pesan

---

**Harsasi Setyawati** <harsasi85@gmail.com>

23 September 2017 pukul 09.03

Kepada: journal@uctm.edu, purkan purkan <purkan@fst.unair.ac.id>, purkan@yahoo.com

Dear editor JCTM,  
Herein I agree with all of preprints that was sent to me. Many thanks.

Harsasi Setyawati

Sent from my iPhone