Novia Sumardi <novia@ft.unsri.ac.id>

Thank you for agreeing to review

4 pesan

Engineering Journal (Eng. J.) <em@editorialmanager.com> 19 Juli 2022 pukul 17.42

Balas Ke: "Engineering Journal (Eng. J.)" <ed.office@engj.org>
Kepada: Novia Novia <novia@ft.unsri.ac.id>

Dear Dr. Novia Novia,

Thank you for agreeing to review manuscript ENGJ-D-22-00038 entitled "Enhanced Oxygen Reduction Reaction of LSCF cathode material added with NiO for IT-SOFC" for Engineering Journal.

To download the paper now, please click this link: https://www.editorialmanager.com/engj/l.asp?i=44514&l=EAO13YFC *

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There you will find spaces for confidential comments to the editor, comments for the author and a report form to be completed.

Best regards,

Chee Keong Ngaw, PhD
Associate Editor

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Web: https://engj.org/
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Novia Sumardi <novia@ft.unsri.ac.id> 10 Agustus 2022 pukul 10.10
Kepada: "Engineering Journal (Eng. J.)" <ed.office@engj.org>

Dear Editor

I reviewed the manuscript.
Could you please give the certificate?

Regards
Novia
[Kutipan teks disembunyikan]

Ekatet Intakan <ekatet.i@eng.chula.ac.th> 19 Agustus 2022 pukul 16.12
Kepada: "novia@ft.unsri.ac.id" <novia@ft.unsri.ac.id>

Dear Professor Novia Novia,

We are sending to you the requested document.

We truly appreciate your time and effort and look forward to your future contribution to Engineering Journal (ISSN 0125-8281).

Best regards,
Mr. Ekatet Intakan
Editorial Assistant

Begin forwarded message:
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Novia Sumardi <novia@ft.unsri.ac.id> 19 Agustus 2022 pukul 17.09
Kepada: Ekatet Intakan <ekatet.i@eng.chula.ac.th>

Thank you for your support.

[Kutipan teks disembunyikan]

Reviewer Recommendation and Comments for Manuscript Number ENGJ-D-22-00038

Enhanced Oxygen Reduction Reaction of LSCF cathode material added with NiO for IT-SOFC

Original Submission
Novia Novia Reviewer 5

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Recommendation: Major Revision **Overall Manuscript Rating (1 - 100):** 80

Custom Review Question(s):	**Response**
Are you willing to review the revision of this manuscript?	Yes
Does the title of this paper clearly and sufficiently reflect its contents?	Yes
Are the keywords and abstracts/summary informative?	Yes
Are the references relevant and up-to-date?	Yes
Please rate the overall academic value and contribution of this manuscript.	good

Manuscript Rating Question(s):	**Scale**	**Rating**
The subject addressed in this article is worthy of investigation.	[1-3]	3
The information presented was new.	[1-5]	4
The conclusions were supported by the data.	[1-10]	7

Reviewer Comments to Author

The paper describes "the mixed ionic electronic conductors used in an intermediate temperature solid oxide fuel cell (IT-SOFC)".
There is an issue that should be addressed before the manuscript publication:
This research is very similar to the study conducted by: Rosli et al. (2021) https://doi.org/10.1016/j.matpr.2021.01.778
Figure 2, Figure 3 and the methods used in this manuscript are similar.

Line 51, page 2 left side: "Previous researchers…..". Who?
Line 1 of page 2, right side: "LSCF-SDCCuO was studied, and porous interlayer and homogeneous and fine grain size were reported". Who?
Table 1 (NiO samples at 600-900) should be removed
Line 51, page 3, right side: NOVA software?
Lines 6-7, page 4, left side: "The presence of carbonyl was expected as CA was used as the chelating agent". Meaning???
Lines 6 1-62 page 4 left side: Don't leave blank
Lines 52-54, page 4 right side: The NiO peaks "found matched" with JCPDS 78-0643, and the LSCF peaks fit JCPDS 89-1268 (Table 2). ????
Line 25, page 5, left side: Don't leave blank
Line 27, page 5, left side: The indented paragraph should be the same as before
Table 2 was not explicitly described in the sentence.
Lines 30-34, page 5 left side: "For LSCF-NiO 700, LSCF-NiO 800, and LSCF-NiO 900, a definite trend could be noticed, in which increasing the calcination temperature

increased the crystal size". Is this true? Compare the results of this study with previous studies.
Figures 3 and 4: Magnification of how many times?
Lines 48-54 (left side) on page 6, don't leave blank
Line 1 on page 7: There is no caption (Table 5)
The font size used in figure 8 should follow the journal's guidelines.
Lines 54-64 (left side) on page 8: Do not leave blank
Lines 57-64 (left side) on page 9: Do not leave blank
Lines 39-40, page 7, right side: The analysis was done using electro impedance
spectroscopy (EIS). ????
Lines 42-43, page 7, right side: "…. at 800 °C". Without space.
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Lines 12-24, page 9, left side: " A previous study by Jiang (2019) reported that the conventional LSCF had the Rp of 1.3 Ω cm2 when it was operated at 700 °C. In this study, the Rp of LSCF-NiO was only 0.37 Ωcm2 [40]. In 2015, Lourerio et al. [41] reported that that LSCF-SDC performed better than the LSCF counterpart at 750 °C, which showed an Rp of 0.33 Ω cm2. Considering that the present study showed that an Rp of 0.12 Ω cm2 at the same operating temperature, it can be said that LSCF-NiO is also performed better than LSCF."
It should be made into a table (compare the value of Ω in this study with other studies) and then explained in sentences. Likewise, with the activation energy value, create a table and compare its value.

Reviewer Confidential Comments to Editor:

Is there a financial or other conflict of interest between your work and that of the authors?

YES __ NO _x_

Please give a frank account of the strengths and weaknesses of the article:
The manuscript cannot be recommended in its current form. Major revise is needed.

Attachments:

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Engineering Journal

Review Thank You

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Thank you for your review of manuscript ENGJ-D-22-00038

Eksternal Kotak

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kepada saya

Inggris Indonesia Terjemahkan pesan

Ref.: ENGJ-D-22-00038
Title: Enhanced Oxygen Reduction Reaction of LSCF cathode material added with NiO for IT-SOFC
Corr. Author: Ir. Dr.-Ing. NoorAshrina A. Hamid

Dear Dr. Novia Novia,

Thank You for your review of this manuscript.

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Best regards,

Chee Keong Ngaw, PhD
Associate Editor

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ISSN: 0125-8281
Web: https://engj.org/

Ref. 64.17/ 2365

Faculty of Engineering
Chulalongkorn University
Phayathai Road, Pathumwan,
Bangkok 10330, Thailand

August 18th, 2022

Re: Review of Manuscript (ENGJ-D-22-00038)

Dear Novia Novia:

On behalf of the Editorial Board of *Engineering Journal* (ISSN 0125-8281), we would like to express our gratitude for your recent contribution to our publication as a reviewer for an article titled **"Enhanced Oxygen Reduction Reaction of LSCF cathode material added with NiO for IT-SOFC,"** which was completed on July 20th, 2020.

We truly appreciate your time and effort, and we look forward to your further contribution in the future.

Sincerely yours,

Anongnat S.

(Professor Anongnat Somwangthanaroj, Ph.D.)
Executive Editor (Acting on behalf of the Editor-in-Chief)
Associate Dean for Research Affairs (Acting on behalf of the Dean of the Faculty of Engineering)

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