

# BUKTI KORESPONDENSI

## INTERNATIONAL JOURNAL OF ENERGY RESEARCH

**Author Dashboard**

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- 5 Most Recent E-mails
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STATUS	ED: Dincer, Ibrahim	ID	TITLE	SUBMITTED	DECISIONED
has been submitted (ER-20-15921.R2)	<ul style="list-style-type: none"> <li>Minor Revision (20-Jul-2020)</li> <li>a revision has been submitted</li> </ul> Archiving completed on 11-Dec-2022 <a href="#">view decision letter</a> <a href="#">Contact Journal</a>	ER-20-15921.R1	PERFORMANCE OF MUSA ACUMINATA BRACKTS EXTRACT BY MICROWAVE IRRADIATION TREATMENT <i>Files Archived</i>	14-May-2020	13-Jun-2020
a revision has been submitted (ER-20-15921.R1)	ED: Nizetic, Sandro ADM: Raj, Preethi ADM: Dincer, Ibrahim <ul style="list-style-type: none"> <li>Major Revision (13-Jun-2020)</li> <li>a revision has been submitted</li> </ul> Archiving completed on 11-Dec-2022 <a href="#">view decision letter</a> <a href="#">Contact Journal</a>	ER-20-15921	ORGANIC SOLAR CELL PERFORMANCE OF MUSA ACUMINATA BRACKTS EXTRACT BY MICROWAVE IRRADIATION TREATMENT <i>Files Archived</i>	14-May-2020	13-Jun-2020

**Manuscripts with Decisions**

ACTION	STATUS	ID	TITLE	SUBMITTED	DECISIONED
	ED: Nizetic, Sandro ADM: Dincer, Ibrahim <ul style="list-style-type: none"> <li>Accept (24-Sep-2020)</li> </ul> Archiving completed on 11-Dec-2022 <a href="#">view decision letter</a> <a href="#">Contact Journal</a>	ER-20-15921.R2	Organic Solar Cell Performance of Musa Acuminata bracts Extract by Microwave Irradiation Treatment <i>Files Archived</i>	23-Sep-2020	24-Sep-2020
a revision has been submitted (ER-20-15921.R2)	ED: Nizetic, Sandro ADM: Dincer, Ibrahim <ul style="list-style-type: none"> <li>Minor Revision (20-Jul-2020)</li> <li>a revision has been submitted</li> </ul> Archiving completed on 11-Dec-2022 <a href="#">view decision letter</a> <a href="#">Contact Journal</a>	ER-20-15921.R1	ORGANIC SOLAR CELL PERFORMANCE OF MUSA ACUMINATA BRACKTS EXTRACT BY MICROWAVE IRRADIATION TREATMENT <i>Files Archived</i>	14-Jul-2020	20-Jul-2020

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## 5 Most Recent E-mails

This section lists the five most recent e-mails that have been sent to you regarding your submission(s).

ACTION	DATE	SUBJECT
Remove	30-Sep-2020	Manuscript Accepted - Updates Approved ER-20-15921.R2 [email ref: ENR-AW-1-e]
Remove	28-Sep-2020	Manuscript Accepted - Updates Received ER-20-15921.R2 [email ref: ENR-AW-1-f]
Remove	24-Sep-2020	Manuscript Accepted - Please submit final updates to ER-20-15921.R2 [email ref: ENR-AW-1-c]
Remove	24-Sep-2020	International Journal of Energy Research - Decision on Manuscript ID ER-20-15921.R2
Remove	23-Sep-2020	ER-20-15921.R2 successfully submitted

Remove All Emails from this List



International Journal of Energy Research

**Preview**

**From:** ERedoffice@wiley.com  
**To:** smadnasri@yahoo.com, larasati2607@gmail.com  
**CC:**  
**Subject:** ER-20-15921.R2 successfully submitted  
**Body:** 23-Sep-2020

Dear Dr. Madnasri,

Your manuscript entitled ER-20-15921.R2 "Organic Solar Cell Performance of Musa Acuminata bracts Extract by Microwave Irradiation Treatment" has been successfully submitted online and is presently being considered for publication in International Journal of Energy Research.

Please mention the above manuscript ID in all future correspondence. If there are any changes in your contact details, please log in to Manuscript Central at <https://mc.manuscriptcentral.com/er> and edit your user information as appropriate.

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 International Journal of Energy Research Editorial Office

**Date Sent:** 23-Sep-2020

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### International Journal of Energy Research

**Preview**

**From:** snizetic@fesb.hr  
**To:** smadnasri@yahoo.com, larasati2607@gmail.com  
**CC:**  
**Subject:** International Journal of Energy Research - Decision on Manuscript ID ER-20-15921.R2  
**Body:** 24-Sep-2020

Dear Dr. Madnasri,

Thank you for submitting your manuscript "Organic Solar Cell Performance of Musa Acuminata bracts Extract by Microwave Irradiation Treatment". I am pleased to confirm that your paper has been accepted for publication in International Journal of Energy Research. There may be comments provided by the referee(s) at the end of this email.

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In closing, I take the opportunity to thank you for choosing to submit your work to International Journal of Energy Research. We look forward to receiving further contributions from you in due course. With my best wishes,

Dr. Sandro Nizetic  
International Journal of Energy Research

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### International Journal of Energy Research

**Preview**

**From:** ERedoffice@wiley.com  
**To:** smadnasri@yahoo.com  
**CC:**  
**Subject:** Manuscript Accepted - Please submit final updates to ER-20-15921.R2 [email ref: ENR-AW-1-c]  
**Body:** 24-Sep-2020

Dear Dr. Madnasri:

Manuscript id: ER-20-15921.R2  
Manuscript title: Organic Solar Cell Performance of Musa Acuminata bracts Extract by Microwave Irradiation Treatment

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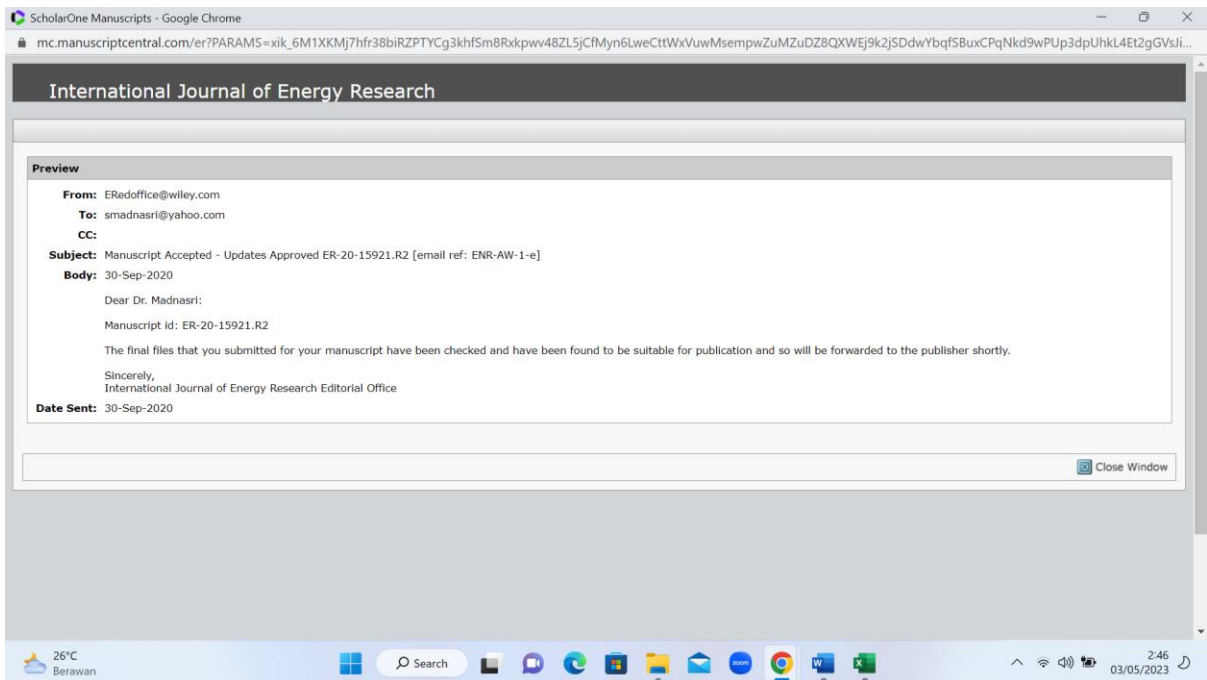
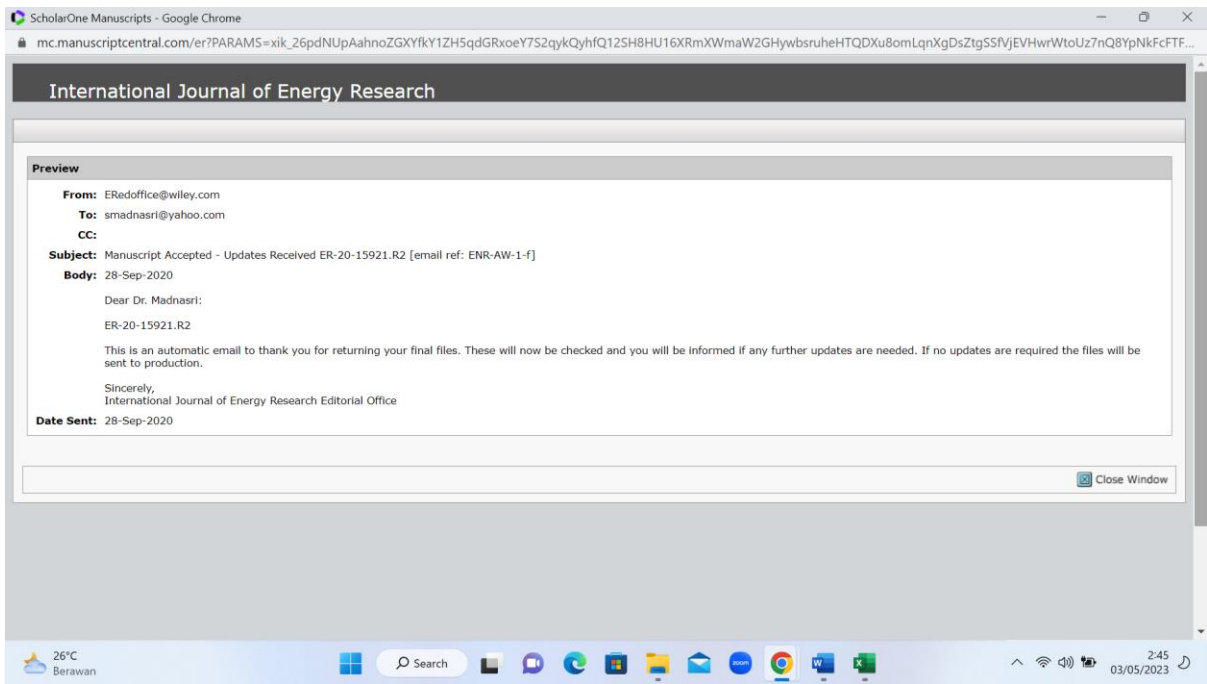
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## REVISI

Editor remarks:

- 1) The novelty of the work must be clearly addressed and discussed, compare your research with existing research findings and highlight novelty, (compare your work with existing research findings and highlight novelty),

- 2) The main objective of the paper must be written on the more clear and more concise way at the end of introduction section,
- 3) Introduction section must be written on more quality way, i.e. more up-to-date references addressed. Research gap should be delivered on more clear way with directed necessity for the conducted research work,
- 4) Please don't use lumpy reference (such as: ref 8-12). Each reference needs to be properly addressed. Please revise your paper accordingly since same issue occurs on several spots in the paper,
- 5) Conclusion section is missing some perspective related to the future research work,
- 6) English language should be carefully checked and carefully check paper for language typos,
- 7) Finally, it is reminded that increasing the number of co-authors is NOT allowed.

Reviewer(s)' Comments to Author:

Reviewer: 1

Comments to the Author

1. Please mention in Introduction about maximum value of power conversion efficiency of DSSC based on natural dyes.
- 2- What is the purpose of presenting Table I? Please specify the optimal condition for extraction. In this study, extraction was performed under certain conditions?
- 3- Please add the UV-Vis spectra of sensitized TiO<sub>2</sub> by natural extraction.
- 4- Please explain the naming of the samples in Table II (B1-B6) and Table III (C1-C6).
- 5- How many samples (DSSCs) were measured? Only 1 or multiple? In what environment was the efficiency measured?
- 6- It is recommended to fabricate the DSSC with the reference N719 dye for comparison.
- 7- The IPCE spectra should be included.
- 8- The discussion of this manuscript is poor. The authors should edify this weakness.

Reviewer: 2

## Comments to the Author

In this manuscript, the authors studied the "Musa Acuminata bracts" as a sensitizer in solar cell. I find it difficult to recommend publication of this paper because of the lack of acceptable data. However, neglecting the data accuracy, if the authors are able to provide more analysis on the cells that would be a big step forwards. I think the authors should address the following comments in the manuscript for future submission:

- 1) In the manuscript authors should cite all the recent and previous related works. The induction don't motivate audience and should be rewritten.
- 2) The measured VOC is 7.5 V which is amazing and I have not seen up to now.
- 3) The cell dimension has not been reported. How they calculated the efficiency with high current (853 mA) and voltage (7.5 V) which gives low efficiency?
- 4) I-V curves are noisy and is not acceptable. How they determined FF for the samples? They should measure this diagram in dark and light.
- 5) The quality of Fig 4 is not good.
- 6) A PL and impedance spectroscopy is required.
- 7) In table 3, I can't understand efficiency without irradiation!
- 8) The materials and methods section should be rewritten in more detail about cell fabrication and characterization.
- 9) Authors should present the SEM image for cross-section of photoanode.
- 10) The radiative lifetime and carrier-transfer-time measurements should be performed.
- 11) The English level is poor. There are many grammatical mistakes and typo errors that should be revised before publication.

Reviewer: 3

## Comments to the Author

In this work, the microwave irradiation is used to accelerate the dye absorption on the TiO<sub>2</sub>. The amount of absorbed banana flower extract in TiO<sub>2</sub> can enhance the absorption of solar energy and the efficiency of manufactured DSSC increased.

I would recommend this manuscript **acceptable to** International Journal of Energy Research after the following comments (major revision):

1. There is no mention of the role and importance of the microwave in the introduction section.
2. What is the reason for using banana flower in this work?
3. It is recommended that this method be compared with other methods that can improve the DSSC performances.
4. The electrochemical properties of the banana flower extract should be examined by cyclic voltammetry to gain more quantitative insight into their redox properties before and after the microwave irradiation.

24-Sep-2020

Dear Dr. Madnasri:

Manuscript id: ER-20-15921.R2

Manuscript title: Organic Solar Cell Performance of Musa Acuminata bracts Extract by Microwave Irradiation Treatment

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Sincerely,

International Journal of Energy Research Editorial Office

## **RESPONSE TO REVIEWER’S COMMENTS**

### **1. Comment:**

The electrochemical properties of the banana flower extract should be examined by cyclic voltammetry to gain more quantitative insight into their redox properties before and after the microwave irradiation.

### **Response:**

OK. Thank you. It is already done. We have characterized the electrochemical properties of banana flower extract using cyclic voltammetry as suggested by the reviewer. The testing method and parameter are described in the method section. Banana flower extract anthocyanin before and after microwave irradiated was tested at various concentrations, scan rates, and repeated scans. The test results in the form of cyclic voltammogram curves are compared, analyzed, concluded, and presented in the results and discussion section. Banana flower extract has very stable redox



properties. This finding is supported by several literacies as cited in the manuscript. This solution is available for DSSC photoactive materials. The treatment of microwave irradiation on the banana flower extracts generates very weak peaks. The irradiated solution by microwaves still showed good stability against the redox reaction. Finally, we thank you for the smart review.