UNIVERSITAS NEGERI YOGYAKARTA

**- Sunu Brams Dwandaru, M.Sc <wipsarian@uny.ac.id>**

# Your submission to Mater. Res. Express: MRX-114902

1 message

**Materials Research Express** <onbehalfof@manuscriptcentral.com> 18 April 2019 at 17:50
Reply-To: mrx@ioppublishing.org
To: silmabilqis24@gmail.com, rhyko.irawan17@gmail.com, isnaeni@lipi.go.id, wipsarian@uny.ac.id

Dear Dr Dwandaru,

Re: “Optical Properties Comparison of Carbon Nanodots Synthesized from Commercial Granulated Sugar Using Hydrothermal Method and Microwave" by Bilqis, Silma; Wisnuwijaya, Rhyko; Isnaeni, Isnaeni; Dwandaru, Wipsar Sunu Brams
Article reference: MRX-114902

Your article has now been transferred to Materials Research Express, as a Paper. The new reference number for your article is MRX-114902. Please quote this number in all future correspondence regarding this manuscript.

As the submitting author, you can follow the progress of your article by checking your Author Centre after logging in to https://mc04.manuscriptcentral.com/mrx-iop Once you are signed in you will be able to track the progress of your article, read the referee reports and send us your electronic files.

Please do not hesitate to contact us if we can be of assistance to you.

Yours sincerely

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Publisher - Alex Wotherspoon

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2017 Impact Factor: 1.151

Letter reference: STr01

UNIVERSITAS NEGERI YOGYAKARTA

**- Sunu Brams Dwandaru, M.Sc <wipsarian@uny.ac.id>**

# Our initial decision on your article: MRX-114902

1 message

**Materials Research Express** <onbehalfof@manuscriptcentral.com> 27 June 2019 at 18:00
Reply-To: mrx@ioppublishing.org
To: wipsarian@uny.ac.id
Cc: silmabilqis24@gmail.com, rhyko.irawan17@gmail.com, isnaeni@lipi.go.id, wipsarian@uny.ac.id

Dear Dr Dwandaru,

Re: "Optical Properties Comparison of Carbon Nanodots Synthesized from Commercial Granulated Sugar Using Hydrothermal Method and Microwave" by Bilqis, Silma; Wisnuwijaya, Rhyko; Isnaeni, Isnaeni; Dwandaru, Wipsar Sunu Brams
Article reference: MRX-114902

We have now received the referee report(s) on your Paper, which is being considered by Materials Research Express.

The referee(s) have recommended that you make substantial changes to your article. The referee report(s) can be found below and/or attached to this message. You can also access the reports at your Author Centre, at https://mc04.manuscriptcentral.com/mrx-iop

Please consider the referee comments and amend your article according to the recommendations. You should then send us a clean final version of your manuscript. Please also send (as separate files) point-by-point replies to the referee comments and either a list of changes you have made or an additional copy of your manuscript with the changes highlighted (for further information visit https://publishingsupport.iopscience.iop.org/questions/how-to-prepare-your-revised-article/). This will aid our referees in reviewing your revised article. Please upload the final version and electronic source files to your Author Centre by 25-Jul-2019.

If we do not receive your article by this date, it may be treated as a new submission, so please let us know if you will need more time.

Please note that if the referee(s) and Editorial Board are not satisfied with the changes to your manuscript, it may still be rejected.

We look forward to hearing from you soon.

Yours sincerely

Hector Murphy

On behalf of the IOP peer review team:
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Publisher - Alex Wotherspoon

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2018 Impact Factor: 1.449

REFEREE REPORT(S):
Referee: 1

COMMENTS TO THE AUTHOR(S)
The ms reports a procedure for the preparation of carbon dots from sugar using microwave and hydrothermal methods.
1) I got some reservations in terms of originality and novelty of the proposed procedure since the preparation of luminescent carbon dots from sugar is already available in literature. in what aspect the proposed method is novel?
2) TEM images are of bad quality and should be replaced with better quality figures;
3) the ms is very short and I think the author should describe and discuss perhaps one application of the as-prepared material. as it stands there is some characterisation but the final purpose or aim is not clear.

Letter reference: DSMa01

Dear Editor-in-Chief of Materials Research Express,

We would like to greatly appreciate the Editor-in-Chief in considering our manuscript to be published in the Materials Research Express. We also would like to thank the reviewer(s) for providing valuable insights and comments concerning our manuscript. Therefore, we hereby would like to address our response to the comments given by the reviewer(s). These are given below.

**Comment 1**:
I got some reservations in terms of originality and novelty of the proposed procedure since the preparation of luminescent carbon dots from sugar is already available in literature. In what aspect the proposed method is novel?

**Response**:
Thank you very much for the comment. We acknowledge and agree with the reviewer that the use of sugar (glucose-based) is already available in the literature. We have mentioned this in the revised manuscript in Page 2 in the first paragraph of the second column (above the Experimental Methods), i.e.:

"In this case, we acknowledge that glucose has been a precursor for producing luminescent C-dots, e.g.: see [15-17]."

However, we believe that further comparing different preparation heating methods, i.e. hydrothermal and microwave, where granulated sugar is used as the pre-cursor material is worth (novel) of reporting. We added this statement in the revised manuscript in Page 2 in the first paragraph of the second column (above the Experimental Methods), i.e.:

"In this study we go further by comparing the optical properties of C-dots from commercial granulated sugar produced via the hydrothermal method and microwave-assisted technique. To the best of our knowledge, this study has not been conducted before and hence contributes to the various literatures of glucose-based materials as precursor for producing C-dots."

Moreover, this study ends up in a finding that solely based on the TRPL results, the hydrothermal method is better than the microwave-assisted technique in synthesizing C-dots. This finding also suggests a support for the novelty of this manuscript. This is put forward in the revised manuscript in Page 5 second column just above the Conclusion part, i.e.:

"For example, based on the TRPL results the longer emission time of the C-dots sample from the hydrothermal method shows a better quality of the material compared to the microwave technique. Therefore, this indicates that the hydrothermal method might be preferable (compared to the microwave technique) to produce C-dots material for optical applications, such as for LEDs or bio-imaging."

**Comment 2**:
TEM images are of bad quality and should be replaced with better quality figures.

**Response**:
Thank you very much for the suggestion. We understand the concern of the reviewer about the quality of the TEM images. In this case we are unable to replace the TEM

images with new ones as the TEM equipment itself at the moment is not operational. Using other TEM device in other institutions in Indonesia may take months as we have to be in a waiting list.

However, we are able to enhanced the images and add insets to show the C-dots particles revealing the C-dots structure. This is included in the revised manuscript in Figure 5 and we added a statement in Page 5 in the beginning of the first column, i.e.:

"Inset figures show clear TEM images for single or few C-dots particles, which reveal lattice structure of the C-dots."

Hopefully, this suffices to show a better quality of the TEM images.

**Comment 3**:
The ms is very short and I think the author should describe and discuss perhaps one application of the as-prepared material. as it stands there is some characterisation but the final purpose or aim is not clear.

**Response**:
Thank you very much for the constructive insights. We again acknowledge that we have not yet describe explicitly the application of the as-prepared material as most of manuscripts in this topic have. This is because we would like to focus in the comparison of the methods used to produce the C-dots material and how it may affect the optical properties of the C-dots produced. However, we added some statements concerning the potential application of the material in Page 5 just above the Conclusions part, i.e.:

"This confirms that the synthesis method affects the optical characteristics of the C-dots obtained. Moreover, the differences in the detail characteristics of these C-dots suggest that the synthesis method of the C-dots may effect their applications for specific purposes. For example, based on the TRPL results the longer emission time of the C-dots sample from the hydrothermal method shows a better quality of the material compared to the microwave technique. Therefore, this indicates that the hydrothermal method might be preferable (compared to the microwave technique) to produce C-dots material for optical applications, such as for LEDs or bio-imaging. Of course, the TRPL is just one parameter that may be used to choose the appropriate method for synthesizing C-dots. A better way would be to consider all characterization results as more results give more information concerning the physical and chemical properties of the C-dots."

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**- Sunu Brams Dwandaru, M.Sc <wipsarian@uny.ac.id>**

# Your revised submission to Mater. Res. Express: MRX-114902.R1

1 message

**Materials Research Express** <onbehalfof@manuscriptcentral.com> 24 July 2019 at 23:41
Reply-To: mrx@ioppublishing.org
To: wipsarian@uny.ac.id, silmabilqis24@gmail.com, rhyko.irawan17@gmail.com, isnaeni@lipi.go.id

Dear Dr Dwandaru,

Re: “Optical Properties Comparison of Carbon Nanodots Synthesized from Commercial Granulated Sugar Using Hydrothermal Method and Microwave" by Dwandaru, Wipsar Sunu Brams; Bilqis, Silma Maula; Wisnuwijaya, Rhyko; Isnaeni, Isnaeni
Article reference: MRX-114902.R1

Thank you for submitting your revised Paper, which will be considered for publication in Materials Research Express. The reference number for your article is MRX-114902.R1. Please quote this number in all future correspondence regarding this manuscript.

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Please do not hesitate to contact us if we can be of assistance to you.

Yours sincerely

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2018 Impact Factor: 1.449

Letter reference: SAu07

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**- Sunu Brams Dwandaru, M.Sc <wipsarian@uny.ac.id>**

# An important update about your manuscript in Mater. Res. Express: MRX-114902.R1

3 messages

**Materials Research Express** <onbehalfof@manuscriptcentral.com> 29 July 2019 at 16:53
Reply-To: mrx@ioppublishing.org
To: wipsarian@uny.ac.id

Dear Dr Dwandaru,

Re: "Optical Properties Comparison of Carbon Nanodots Synthesized from Commercial Granulated Sugar Using Hydrothermal Method and Microwave" by Dwandaru, Wipsar Sunu Brams; Bilqis, Silma Maula; Wisnuwijaya, Rhyko; Isnaeni, Isnaeni
Article reference: MRX-114902.R1

Thank you for your submission to Materials Research Express. We have put your Paper on hold because you have not uploaded your manuscript source file, i.e. the file that you used to produce your revised article (this would include a Word or TeX file). We need this file in order to proceed towards publication. If your source file is a Word document please ensure that all tables and equations are editable, as we may need to typeset them at a later stage.

Please note that if you experience any problems with the online submission system then you may send your source file to the journal email box.

We encourage you to respond to our query as soon as possible, as we will then be able to send your revised manuscript back out to the referee(s).
We look forward to receiving your file shortly.

We encourage you to respond to our query as soon as possible, as we will not be sending your manuscript to the referees until we have heard from you. Please send us your response no later than 05/08/19.
Yours sincerely

Qamar Scott

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2018 Impact Factor: 1.449

Letter reference: SAu02

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**- Sunu Brams Dwandaru, M.Sc** <wipsarian@uny.ac.id> 29 July 2019 at 18:34
To: Materials Research Express <mrx@ioppublishing.org>, "- Sunu Brams Dwandaru, M.Sc" <wipsarian@uny.ac.id>

# Mater. Res. Express: MRX-114902.R1

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Dear Editor-in-Chief Prof. Meyya Meyyappan of IOP Materials Research Express,

We truly appreciate your Email in informing us about the missing source files of our revised manuscript. We deeply apologize for this.

We hereby have rectify the mistake by uploading the source files in the online submission system and also attaching them in this Email.

Thank you very much again for notifying us and hopefully our manuscript may be further processed.

Best regards,
Wipsar Sunu Brams Dwandaru, PhD

[Quoted text hidden]

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**3 attachments**

**final revised manuscript Materials Research Express.docx**
1218K

**revised manuscript Materials Research Express with highlighted changes.docx**
1218K

**Response Letter Materials Research Express.docx**
16K

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**Materials Research Express** <mrx@ioppublishing.org> 31 July 2019 at 16:45
To: "- Sunu Brams Dwandaru, M.Sc" <wipsarian@uny.ac.id>

Dear Dr Dwandaru,

Many thanks, I confirm this has now gone back to the reviewer.

Kind regards

Beth Hammond
Editorial Assistant
Materials Research Express
2018 Impact Factor: 1.449

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Piers Stanger – Editor

Maddy Cumbes, Adam Gough, Sarah Hunter, David Marquiss, Hector Murphy, Georgia Goring & David Murray – Associate Editors

Jake Colsell, Isabella Formisano, Blythe Rowley & Jo Bewley – Editorial Assistants

Martin Kitts & Matthew Lang – Production Editors

Contact Details
E-mail: mrx@ioppublishing.org
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**From:** - Sunu Brams Dwandaru, M.Sc <wipsarian@uny.ac.id>
**Sent:** 29 July 2019 12:34 PM
**To:** Materials Research Express <mrx@ioppublishing.org>; - Sunu Brams Dwandaru, M.Sc <wipsarian@uny.ac.id>
**Subject:** Re: An important update about your manuscript in Mater. Res. Express: MRX-114902.R1

[Quoted text hidden]

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**- Sunu Brams Dwandaru, M.Sc <wipsarian@uny.ac.id>**

# Our decision on your Paper: MRX-114902.R1

1 message

**Materials Research Express** <onbehalfof@manuscriptcentral.com> 5 August 2019 at 19:06
Reply-To: mrx@ioppublishing.org
To: wipsarian@uny.ac.id, silmabilqis24@gmail.com, rhyko.irawan17@gmail.com, isnaeni@lipi.go.id

Dear Dr Dwandaru,

Re: "Optical Properties Comparison of Carbon Nanodots Synthesized from Commercial Granulated Sugar Using Hydrothermal Method and Microwave" by Dwandaru, Wipsar Sunu Brams; Bilqis, Silma Maula; Wisnuwijaya, Rhyko; Isnaeni, Isnaeni
Article reference: MRX-114902.R1

We are pleased to tell you that we have provisionally accepted your Paper for publication in Materials Research Express. Any further comments from the referees can be found below and/or attached to this message. Our editorial team will now perform some final checks to ensure that we have everything we need to publish your Paper. These checks will enable our production team to publish your Paper as quickly and efficiently as possible. Once this is confirmed, your article will be formally accepted and we will inform you of this via email.

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Thank you for choosing to publish in Materials Research Express. We look forward to publishing your Paper.

Yours sincerely

Hector Murphy

On behalf of the IOP peer review team:
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2018 Impact Factor: 1.449

REFEREE REPORT(S):
Referee: 1

COMMENTS TO THE AUTHOR(S)
The authors have revised the ms taking into account referees' suggestions. I think the ms is suitable now for publication in MRX.

Letter reference: ERWSA01

UNIVERSITAS NEGERI YOGYAKARTA

**- Sunu Brams Dwandaru, M.Sc <wipsarian@uny.ac.id>**

# Your Materials Research Express article ab3952 is ready to check

1 message

**mrx@ioppublishing.org** <mrx@ioppublishing.org> 12 August 2019 at 16:42
To: wipsarian@uny.ac.id

Re: “Optical properties comparison of carbon nanodots synthesized from commercial granulated sugar using hydrothermal method and microwave” by Dwandaru et al

Dear Dr Dwandaru,

Your article is ready to check and make final corrections. Please click the link below to start.

Article preview
Check and finalize your article by 13 August 2019

- Make any corrections and answer all queries in **English**
- Save your changes often
- Click the **Finalize** button when you have finished

Please reply to this email if you need any help.

Best regards,

Production Team
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mrx@ioppublishing.org

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**- Sunu Brams Dwandaru, M.Sc <wipsarian@uny.ac.id>**

# Your Materials Research Express article ab3952 - Proof corrections received

1 message

**mrx@ioppublishing.org** <mrx@ioppublishing.org> 13 August 2019 at 12:20
To: wipsarian@uny.ac.id

Dear Dr Dwandaru

Re: "Optical properties comparison of carbon nanodots synthesized from commercial granulated sugar using hydrothermal method and microwave" by Dwandaru et al

Thank you for submitting your proof corrections. We will next contact you when your article has been published online, unless we have any further queries.

Yours sincerely

Production Team
Materials Research Express
mrx@ioppublishing.org

UNIVERSITAS NEGERI YOGYAKARTA

- Sunu Brams Dwandaru, M.Sc <wipsarian@uny.ac.id>

# Your Materials Research Express article ab3952 has been published

1 message

**mrx@ioppublishing.org** <mrx@ioppublishing.org> 21 August 2019 at 17:14
To: wipsarian@uny.ac.id

Re: “Optical properties comparison of carbon nanodots synthesized from commercial granulated sugar using hydrothermal method and microwave” by Dwandaru et al
Dear Dr Dwandaru,

Your article has been published on IOPscience with the following DOI:
https://dx.doi.org/10.1088/2053-1591/ab3952

We are interested to hear your thoughts as a published author on how we can improve our author services. Share your views with us in our **Published Author Survey**. (Please be assured that we will only use your details for the purposes of the survey).

Thank you for your support of Materials Research Express. We look forward to working with you again in the future.

Best regards,

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Materials Research Express
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