

DOKUMEN KORESPONDENSI

A. Karya Ilmiah 1

Judul Artikel	:	Novel one-step synthesis of solid-state carbonized polymer dots by heating at around melting point of polyethylene terephthalate (PET) bottle plastic waste
Terbit pada jurnal	:	Environmental Nanotechnology, Monitoring and Management
Volume	:	20
Halaman	:	1-8
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Tautan Artikel pada Jurnal	:	https://www.sciencedirect.com/science/article/pii/S2215153223001162?dgcid=coauthor
Tautan Artikel pada Drive	:	https://bit.ly/ENMM-Mahardika

Tahapan proses :

1. Submission to “Environmental Nanotechnology, Monitoring and Management” (June 25, 2023) (File : Draft Manuscript)

ENMM-D-23-00365 - Confirming your submission to Environmental Nanotechnology, Monitoring & Management

Environmental Nanotechnology, Monitoring & Management <em@editorialmanager.com> Sun, Jun 25, 2023 at 12:07 PM
Reply-To: "Environmental Nanotechnology, Monitoring & Management" <support@elsevier.com>
To: Mahardika Prasetya Aji <mahardika@mail.unnes.ac.id>

This is an automated message.

Novel one-step synthesis of solid-state carbon dots by heating at around melting point of polyethylene terephthalate (PET) bottle plastic waste

Dear Mr Prasetya Aji,

We have received the above referenced manuscript you submitted to Environmental Nanotechnology, Monitoring & Management. It has been assigned the following manuscript number: ENMM-D-23-00365.

To track the status of your manuscript, please log in as an author at <https://www.editorialmanager.com/enmm/>, and navigate to the "Submissions Being Processed" folder.

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2. Decision on submission to “Environmental Nanotechnology, Monitoring and Management” (Aug 11, 2023)

Decision on submission to Environmental Nanotechnology, Monitoring & Management

Environmental Nanotechnology, Monitoring & Management <em@editorialmanager.com> Fri, Aug 11, 2023 at 1:32 AM
Reply-To: "Environmental Nanotechnology, Monitoring & Management" <support@elsevier.com>
To: Mahardika Prasetya Aji <mahardika@mail.unnes.ac.id>

CC: yolanda.pico@uv.es

Manuscript Number: ENMM-D-23-00365

Novel one-step synthesis of solid-state carbon dots by heating at around melting point of polyethylene terephthalate (PET) bottle plastic waste

Dear Mr Prasetya Aji,

Thank you for submitting your manuscript to Environmental Nanotechnology, Monitoring & Management.

I have completed my evaluation of your manuscript. The reviewers recommend reconsideration of your manuscript following major revision. I invite you to resubmit your manuscript after addressing the comments below. Please resubmit your revised manuscript by Aug 31, 2023.

When revising your manuscript, please consider all issues mentioned in the reviewers' comments carefully: please outline every change made in response to their comments and provide suitable rebuttals for any comments not addressed. Please note that your revised submission may need to be re-reviewed.

To submit your revised manuscript, please log in as an author at <https://www.editorialmanager.com/enmm/>, and navigate to the "Submissions Needing Revision" folder.

Research Elements (optional)

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Environmental Nanotechnology, Monitoring & Management values your contribution and I look forward to receiving your revised manuscript.

Kind regards,
Piero Gardinali
Co Editor-in-Chief

Environmental Nanotechnology, Monitoring & Management

Editor and Reviewer comments:

Reviewer #1: In this manuscript, some experiments were conducted to obtain the so-called CDs from PET by simple heating. The motivation sounds interesting, with some preliminary results reflecting the possible luminescence from obtained pyrolysis product of PET. However, owing to the lack of any piece of evidence to convince the formation of CDs, the whole work is just a simple demonstration that pyrolyzing PET at suitable temperature for suitable time duration would lead to some luminescence. Therefore, the manuscript is far from being a self-consistent story giving a logical sequence from systematic experiment through comprehensive characterizations to well-established conclusions. The reviewer is firmly against its acceptance at its current status. Some other comments are as follows: 1. It is highly not imaginable that a manuscript discussing CDs is given without any SEM or TEM image of CDs. Is the resultant pyrolysis product of PET really CDs? No evidence is given. In fact, from the general pyrolysis knowledge, it

- is hardly believable that such a process can result in CDs;
2. Emphasizing pyrolysis temperature around melting temperature is meaningless, because melting temperature reflects intermolecular behaviors, while decomposition temperature reflects molecular chain bond strength; by the way, it should be noticed that the characteristic temperatures in TG testing are highly dependent on heating rate, and TG curves only reflect weight loss, not able to reflect a decrease in molecular weight;
 3. Figure 1b and 1c are highly questionable;
 4. Just 'strong PL' would mean nothing if no further information such as quantum yield is given.

Reviewer #2: 1. Carbon dots (CDs) generally refer to the quasi-zero-dimensional fluorescent carbon-based nanomaterials with a size of less than 10 nm. However, in this manuscript, there are no transmission electron microscope (TEM) images of PET-CDs, thus, the authors cannot identify the synthesized material as CDs. The authors may have synthesized a kind of materials with fluorescence.

2. Also authors mentioned " Due to the severe aggregation-caused quenching, most CDs show no fluorescence in the solid state (B. Liu et al., 2021). This study obtained solid-state PET CDs with strong blue photoluminescence without aggregation." However, the author did not explain the reason for the solid-state luminescence of the prepared PET-CDs and more characterization is needed for further elucidation.
3. Using PET as raw material, various CDs have been extensively reported in the literature, and the results obtained in this work should be compared with that reported in other works.
4. Why does the TGA curve in Figure 1B decrease first and then increase? Why do PET-CDs prepared at different temperatures in Figure 2C exhibit small emission peaks within the range of 550-600nm? More explanations are required.
5. Please pay attention to writing standard of the manuscript, such as the space between numbers and units, the capitalization of abbreviations etc..

Reviewer #3: In this manuscript, the authors reported a one-step synthetic route to convert PET bottle waste into solid-state fluorescent carbon dots (CDs). Moreover, they discovered that PET-based CDs fabricated at 260 °C for 2.5 hours exhibit the highest fluorescence intensity. The work is very interesting, and offers a promising solution for plastic waste management. In my opinion, it can be accepted for publication after minor revisions.

- (1) Since the preparation was based on the PET thermal decomposition with heating temperatures between 200 °C and 300 °C, it is suggested that the product might be "carbonized polymer dots" more than "carbon dots".
- (2) The XRD patterns of the PET-CDs samples prepared at 240 °C and 260 °C respectively should be provided to see if there are any crystalline impurities inside them?
- (3) What is the mass product yield of the PET-CDs in this work? Is this method can be used for large-scale preparation of CDs in the near future?

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3. Request an extension of 20 days to finalize the revision (Aug 28, 2023)

Revision of "Novel one-step synthesis of solid-state carbon dots by heating at around melting point of polyethylene terephthalate (PET) bottle plastic waste" is due soon

Mahardika Prasetya Aji <mahardika@mail.unnes.ac.id>
To: Piero Gardinali <gardinal@fiu.edu>

Mon, Aug 28, 2023 at 3:51 PM

Dear Editor of Environmental Nanotechnology, Monitoring & Management

Thank you for your gently reminder. I hope this email finds you well. I am writing to respectfully request an extension for the due date of the revision submission for our manuscript with the ID ENMM-D-23-00365, titled "Novel one-step synthesis of solid-state carbon dots by heating at around melting point of polyethylene terephthalate (PET) bottle plastic waste." I am the corresponding author for this submission.

We greatly appreciate the feedback and constructive comments provided by the reviewers. These insights have been invaluable in refining our manuscript to meet the high standards set by Environmental Nanotechnology Monitoring and Management. However, considering the complexity of the revisions suggested and our commitment to producing a comprehensive and improved manuscript, we kindly request an extension of 20 days to finalize the revisions and ensure the quality of the work. We believe that the extra time will allow us to address all comments adequately and enhance the overall contribution of our paper.

We understand the importance of adhering to the publication schedule and assure you that we will make every effort to complete the revisions as promptly as possible within the extended timeframe. Your understanding and consideration of this request would be greatly appreciated. Please let us know if the extension can be granted.

Thank you very much for your time and consideration. We look forward to your response.

Best regards,

Dr. Mahardika Prasetya Aji
Department of Physics, Universitas Negeri Semarang
mahardika@mail.unnes.ac.id

[Quoted text hidden]

Piero Gardinali <gardinal@fiu.edu>
To: Mahardika Prasetya Aji <mahardika@mail.unnes.ac.id>

Mon, Aug 28, 2023 at 9:31 PM

No problem.

Please disregard the automated emails from the system.

I noted the request.

Thanks

Piero Gardinali

Piero R. Gardinali, PhD

Director, Freshwater Resources Division

Associate Director, the Institute of Environment, an FIU Preeminent Program

Professor
Department of Chemistry & Biochemistry

Florida International University
Biscayne Bay Campus
3000 NE 151st Street
Marine Science Building, MSB-356
North Miami, Florida, 33181

Phone: (305)348-6354 Fax:(305)348-3772
E-mail: gardinal@fiu.edu

4. Confirming submission to “Environmental Nanotechnology, Monitoring and Management” (Sep 19, 2023) ([File : Revision Manuscript](#))

Confirming submission to Environmental Nanotechnology, Monitoring & Management

Environmental Nanotechnology, Monitoring & Management

Tue, Sep 19, 2023 at 11:06

<em@editorialmanager.com>

PM

Reply-To: "Environmental Nanotechnology, Monitoring & Management" <support@elsevier.com>

To: Mahardika Prasetya Aji <mahardika@mail.unnes.ac.id>

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Manuscript Number: ENMM-D-23-00365R1

Novel one-step synthesis of solid-state carbonized polymer dots by heating at around melting point of polyethylene terephthalate (PET) bottle plastic waste

Dear Mr Prasetya Aji,

We have received the above referenced manuscript you submitted to Environmental Nanotechnology, Monitoring & Management.

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5. Decision on submission to “Environmental Nanotechnology, Monitoring and Management” (Oct 26, 2023)

Decision on submission to Environmental Nanotechnology, Monitoring & Management

Environmental Nanotechnology, Monitoring & Management <em@editorialmanager.com> Thu, Oct 26, 2023 at 10:45 PM
Reply-To: "Environmental Nanotechnology, Monitoring & Management" <support@elsevier.com>
To: Mahardika Prasetya Aji <mahardika@mail.unnes.ac.id>

CC: yolanda.pico@uv.es

Manuscript Number: ENMM-D-23-00365R1

Novel one-step synthesis of solid-state carbonized polymer dots by heating at around melting point of polyethylene terephthalate (PET) bottle plastic waste

Dear Mr Prasetya Aji,

Thank you for submitting your manuscript to Environmental Nanotechnology, Monitoring & Management.

I am pleased to inform you that your manuscript has been accepted for publication.

My comments, and any reviewer comments, are below.

Your accepted manuscript will now be transferred to our production department. We will create a proof which you will be asked to check, and you will also be asked to complete a number of online forms required for publication. If we need additional information from you during the production process, we will contact you directly.

We appreciate you submitting your manuscript to Environmental Nanotechnology, Monitoring & Management and hope you will consider us again for future submissions.

We encourage authors of original research papers to share the research objects – including raw data, methods, protocols, software, hardware and other outputs – associated with their paper. More information on how our open access Research Elements journals can help you do this is available at https://www.elsevier.com/authors/tools-and-resources/research-elements-journals?dgcid=ec_em_research_elements_email.

Kind regards,
Piero Gardinali
Co Editor-in-Chief

Environmental Nanotechnology, Monitoring & Management

Editor and Reviewer comments:

Reviewer #3: In the revised manuscript, the authors have responded to all of reviewers' comments point-by-point carefully, thus I would recommend its acceptance for publication in Environmental Nanotechnology, Monitoring & Management.

6. Proof Read (Oct 28, 2023)

Corrections received - [ENMM_100892]

optteam@elsevierproofcentral.com <optteam@elsevierproofcentral.com>

Sat, Oct 28, 2023 at 8:00 PM

To: mahardika@mail.unnes.ac.id

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Dear Dr. Mahardika Prasetya Aji,

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B. Karya Ilmiah 2

Judul Artikel	:	Carbon dots from dragonfruit peels as growth-enhancer on ipomoea aquatica vegetable cultivation
Terbit pada jurnal	:	Advances in Natural Sciences: Nanoscience and Nanotechnology
Volume	:	11
Halaman	:	1-6
Tahun	:	2020
Penerbit	:	Institute of Physics
Kuartil	:	Q2
Indeks SJR	:	0.476
Tautan Artikel pada Jurnal	:	https://iopscience.iop.org/article/10.1088/2043-6254/ab9d15
Tautan Artikel pada Drive	:	https://bit.ly/ANSN-Mahardika

Tahapan proses :

1. Manuscript Submitted “Advances in Natural Sciences: Nanoscience and Nanotechnology” (Dec 8, 2019) ([File : Draft Manuscript](#))

[ANSN-2019-0169] - Manuscript Submitted

NVT Secretariat of ANSN <onbehalf@manuscriptcentral.com>
Reply-To: journal@ans.vast.vn
To: mahardika@mail.unnes.ac.id

Sun, Dec 8, 2019 at 6:10 PM

08-Dec-2019

Dear Dr. Aji:

Your manuscript entitled "Carbon Dots from Dragon Fruit's Peels as Growth-Enhancer on Ipomoea Aquatica Vegetable Cultivation" has been successfully submitted online and is presently being given full consideration for publication in the Advances in Natural Sciences: Nanoscience and Nanotechnology (ANSN).

Your manuscript ID is ANSN-2019-0169.

Please mention the above manuscript ID in all future correspondence or when calling the office for questions. If there are any changes in your street address or e-mail address, please log in to ScholarOne Manuscripts at <https://mc04.manuscriptcentral.com/vastansn> and edit your user information as appropriate.

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Thank you for submitting your manuscript to the Advances in Natural Sciences: Nanoscience and Nanotechnology. If you have any questions, feel free to contact us at journal@ans.vast.vn.

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2. Decision on Manuscript (Feb 26, 2020)

[ANSN-2019-0169] - Decision on Manuscript: MAJOR REVISION

NQL Editor-in-Chief <onbehalf@manuscriptcentral.com>
Reply-To: ansn.eic@vast.vn
To: mahardika@mail.unnes.ac.id

Wed, Feb 26, 2020 at 3:00 PM

26-Feb-2020

Dear Dr. Aji:

Manuscript ID ANSN-2019-0169 entitled "Carbon Dots from Dragon Fruit's Peels as Growth-Enhancer on Ipomoea Aquatica Vegetable Cultivation" which you submitted to the Advances in Natural Sciences: Nanoscience and Nanotechnology (ANSN), has been reviewed. The comments of the reviewers are included at the bottom of this letter.

The reviewers have recommended publication, but also suggest some revisions to your manuscript. Therefore, I invite you to respond to the reviewers' comments and revise your manuscript.

To revise your manuscript, log into <https://mc04.manuscriptcentral.com/vastansn> and enter your Author Center, where you will find your manuscript title listed under "Manuscripts with Decisions". Under "Actions", click on "Create a Revision". Your manuscript number has been appended to denote a revision.

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Once the revised manuscript is prepared, you can upload it and submit it through your Author Center.

When submitting your revised manuscript, you will be able to respond to the comments made by the reviewers in the space provided. You can use this space to document any changes you make to the original manuscript. In order to expedite the processing of the revised manuscript, please be as specific as possible in your response to the reviewers.

IMPORTANT: Your original files are available to you when you upload your revised manuscript. Please delete any redundant files before completing the submission.

Because we are trying to facilitate timely publication of manuscripts submitted to the Advances in Natural Sciences: Nanoscience and Nanotechnology, your revised manuscript should be submitted by 27-Mar-2020. If it is not possible for you to submit your revision by this date, we may have to consider your paper as a new submission. Please inform us at journal@ans.vast.vn if you need an extension in order to revise this paper.

Once again, thank you for submitting your manuscript to the Advances in Natural Sciences: Nanoscience and Nanotechnology and I look forward to receiving your revision.

Sincerely,

Editor-in-Chief
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E-mail: journal@ans.vast.vn
Homepage: <https://iopscience.iop.org/ansn>; <https://ans.vast.vn/>
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Reviewers' Comments to Author:

Reviewer: 1

Comments to the Author

This is an interesting experiment. The ability to use a waste produce (such as dragonfruit peel) and convert an extract from the peel into a plant nutrient carrier is an excellent idea.

The physics part of the experiment is well explained, although you do need to include the wattage of the microwave you used - since that can be quite variable between manufacturers (and over time it will decrease).

The plant part of the experiment needs more information to be very useful to researchers - and some of the should be in the methods section - not the discussion.

Did you start with cuttings of the plant? How large were they? How long since they were rooted? Had they received any other supplemental fertilization before the C-dots treatments? How often was the C-dots treatment applied - and how much. What size container is used for each rooted cutting? What are the environmental parameters? What is the lighting source (greenhouse, artificial lighting?) What temperatures were the plants grown under? Did you count the number of leaves or stem nodes at 20 or 40 days.

Is there some other reason possible for stem elongation (that's why the number of nodes is important - to separate growth from elongation).

Why not include photos of all treatments, even those that were not much different. Certainly we would want a photo of plants with C-dots added that did not have the added urea, just to see if there is a mechanical effect. It would not hurt to explain briefly (maybe in the introduction or in the discussion) why you selected water spinach as a test crop - and the proper scientific name is *Ipomoea aquatica* ... you need to spell it the same way throughout the paper and the "aquatica" starts with a lowercase letter - not uppercase that is correct for "Ipomoea". It should be in italics every time you use it (and I can't write in italics here). If you introduce a common name for the crop, it is also ok to use that after you have introduced the scientific name.

There are number of minor grammar errors and perhaps the editor will make some suggestions. The Fruit's Peel in the title does NOT need to be possessive, so just say Fruit Peel or Dragonfruit Peel if you prefer to make it one word (and that is acceptable for dragonfruit).

Reviewer: 2

Comments to the Author

The paper presents an application of C-Dots for promoting the growth of *Ipomoea Aquatica* vegetable. It is a topic of interest to the researchers in the related areas but the paper needs significant improvement before acceptance for publication. My detailed comments are as follows:

- 1) In the abstract sentence, you mention "Nanoparticles C-Dots have been". Which will you use in the following text, "nanoparticle C-Dots" or "C-Dots nanoparticles" or "C-Dots"? All three are found.
- 2) How much microwave oven power do you use?
- 3) Page 7, please add references to confirm that the peaks at 420 nm and 543 nm are from the C=C bond and C=O and C=N bonds and attributed to the electron transition in $n \rightarrow \pi^*$ and $\pi \rightarrow \pi^*$ orbitals, respectively.
- 4) Page 8, please add references to confirm that the peaks at 729 cm⁻¹, 1639 cm⁻¹, 2123 cm⁻¹ and 3478 cm⁻¹ are assigned to the stretching vibration of C-H, C=O, C=N, and -OH, respectively.
- 5) Please re-word the sentence in lines 39-43, page 9.
- 6) The authors should provide TEM image to indicate the size of the C-Dots
- 7) There are a lot of typos.

3. **Manuscript Submitted (Mar 26, 2020) (File : [Authors Response](#) dan [Revision Manuscript](#))**

[ANSN-2019-0169.R1] - Manuscript Submitted

NVT Secretariat of ANSN <onbehalf@manuscriptcentral.com>
Reply-To: journal@ans.vast.vn
To: mahardika@mail.unnes.ac.id

Thu, Mar 26, 2020 at 12:08 PM

26-Mar-2020

Dear Dr. Aji:

Your manuscript entitled "Carbon Dots from Dragonfruit Peels as Growth-Enhancer on Ipomoea aquatica Vegetable Cultivation" has been successfully submitted online and is presently being given full consideration for publication in the Advances in Natural Sciences: Nanoscience and Nanotechnology (ANSN).

Your manuscript ID is ANSN-2019-0169.R1.

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Manuscript submission: <https://mc04.manuscriptcentral.com/vastansn>

4. Accepted (Apr 22, 2020)

[ANSN-2019-0169.R1] - Decision on Manuscript: ALMOST ACCEPTED

NQL Editor-in-Chief <onbehalf@manuscriptcentral.com>

Wed, Apr 22, 2020 at 6:18 PM

Reply-To: ansn.eic@vast.vn

To: mahardika@mail.unnes.ac.id

22-Apr-2020

Dear Dr. Aji:

Your manuscript entitled "Carbon Dots from Dragonfruit Peels as Growth-Enhancer on Ipomoea aquatica Vegetable Cultivation" is almost accepted for publication in the Advances in Natural Sciences: Nanoscience and Nanotechnology (ANSN). There are still some comments from our reviewers that are quoted at the bottom of this letter. Please do critical revision to meet the requirements of an accepted article, then send the revised one as the attached file to journal@ans.vast.vn for further processing.

Based on the quality of your revised manuscript which we will receive, the final decision will be made soon.

If your manuscript is accepted, it will be transferring to the production process. When your page proofs are ready for your review, you will receive an email from IOP Publishing with instructions for downloading your page proofs. You will have only two business days to review the proofs and respond with any required corrections before the paper is finalized for publication.

Thank you for giving us the opportunity to learn about your work. On behalf of the Editors of the Advances in Natural Sciences: Nanoscience and Nanotechnology, we look forward to your continued contributions to the Journal. If you have any questions, feel free to contact us at journal@ans.vast.vn.

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Editor-in-Chief

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To: mahardika@mail.unnes.ac.id

Thu, Jun 18, 2020 at 5:52 PM

Re: " Carbon dots from dragonfruit peels as growth-enhancer on ipomoea aquatica vegetable cultivation " by Mahardika Prasetya

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To: mahardika@mail.unnes.ac.id

Thu, Jun 25, 2020 at 11:40 PM

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