



Maria Yuliana &lt;mariayuliana@ukwms.ac.id&gt;

**MTSUS-D-22-01206 - Confirming your submission to Materials Today Sustainability**

1 message

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Thu, Dec 15, 2022 at 4:42 PM



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Utilization of Coconut Waste-based Cellulose Microfiber/Zeoilic-Imidazolate Framework-8 (CMF/ZIF-8) Composite for High-Performance Curcumin Uptake and Controlled Release

Dear Dr. Yuliana,

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Maria Yuliana &lt;mariayuliana@ukwms.ac.id&gt;

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**Decision on submission to Materials Today Sustainability**

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**Materials Today Sustainability** <em@editorialmanager.com>  
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Fri, Dec 23, 2022 at 4:56 PM



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Manuscript Number: MTSUS-D-22-01206

Utilization of Coconut Waste-based Cellulose Microfiber/Zeolitic-Imidazolate Framework-8 (CMF/ZIF-8) Composite for High-Performance Curcumin Uptake and Controlled Release

Dear Dr. Yuliana,

Thank you for submitting your manuscript to Materials Today Sustainability.

I have completed my evaluation of your manuscript. The reviewers recommend reconsideration of your manuscript following minor revision and modification. I invite you to resubmit your manuscript after addressing the comments below. Please resubmit your revised manuscript by Jan 13, 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/mtsus/>, and navigate to the "Submissions Needing Revision" folder under the Author Main Menu.

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Materials Today Sustainability values your contribution and I look forward to receiving your revised manuscript.

Kind regards,

Prof. Jian Liu

Editor-in-Chief

Materials Today Sustainability

Editor and Reviewer comments:

Reviewer #1: The authors reported the Coconut Waste-based Cellulose Microfiber/ZIF-8 (CMF/ZIF-8) for drug release of curcumin. This manuscript seems organized well, with little to no significant issues. Therefore I see no reason to prevent this manuscript from being published. The submission can be accepted after minor revision taking into account the following points:-

1. The title should be revised to be short, precise, and informative. Redundant words such as 'Composite for High-Performance Curcumin Uptake and Controlled Release' should be removed. It is enough to mention ' for curcumin drug delivery'.
2. The mechanism of the drug release should be further discussed. The authors should note that PBS causes the decomposition of ZIF-8 to ZnPO<sub>4</sub>. Please, see these References;
3. A camera image showing the materials before and after Curcumin adsorption should be added.
4. ZIF-8 application for drug release should be updated including these References; <https://doi.org/10.1021/acsabm.0c00300>; <https://doi.org/10.1002/adfm.201805372>; <https://doi.org/10.1038/s41598-017-12786-6>; DOI: 10.1039/D1RA09450E
5. The language should be improved and typos should be corrected.

Reviewer #2: In this study, the authors prepared microfiber and zeolite imidazole frame8 (CMF/ZIF-8) composites based on coconut waste for the absorption/release of curcumin. The absorption behavior of curcumin by CMF/ZIF-8 was elucidated by kinetics, isotherm and thermodynamics. Under the conditions of CMF/ZIF-8 loading (MC)=0.1%(w/w), adsorption time (T)=1440 min, temperature (T)=30°C and initial concentration of curcumin of 626.4 mg L<sup>-1</sup>, the maximum adsorption capacity of curcumin could reach 1000 mg g<sup>-1</sup>. Therefore, CMF/ZIF-8 would be a potential smart drug carrier that could be implemented in controlled drug delivery systems with stimulus-response mechanisms. In my opinion, there are still some problems in this manuscript that need to be revised.

1. APTES functionalized CMF/ZIF-8 is the same as non-functionalized CMF/ZIF-8. Please make a distinction.
2. The ruler on the high-resolution picture in Figure C is too small to be distinguishable. The author is advised to add a ruler that is clearly visible.
3. The aperture distribution curve is described in the paper, but the relevant curve is not shown in the paper.
4. Some related works are suggested to be cited, such as: Carbohyd. Polym. 2022, 296, 119969; Chem. Eng. J. 2018, 349, 766-774.
5. According to the study in the paper, the adsorption performance decreases with the increase of temperature from 30 °C to 50 °C, so why not study the adsorption behavior below 30 °C?

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Mon, Jan 9, 2023 at 7:37 PM



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Utilization of APTES-Functionalized Coconut Waste-based Cellulose Microfiber/Zeoilic-Imidazolate Framework-8 (APTES-CMF/ZIF-8) Composite for Curcumin Delivery

Dear Dr. Yuliana,

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4/7/23, 11:56 PM

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Sat, Jan 14, 2023 at 2:23 PM



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Manuscript Number: MTSUS-D-22-01206R1

Utilization of APTES-Functionalized Coconut Waste-based Cellulose Microfiber/Zeolitic-Imidazolate Framework-8 (APTES-CMF/ZIF-8) Composite for Curcumin Delivery

Dear Dr. Yuliana,

Thank you for submitting your manuscript to Materials Today Sustainability.

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 Materials Today Sustainability 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](https://www.elsevier.com/authors/tools-and-resources/research-elements-journals?dgcid=ec_em_research_elements_email).

Kind regards,  
Prof. Jian Liu  
Editor-in-Chief

Materials Today Sustainability

Editor and Reviewer comments:

Reviewer #1: The authors addressed most of the comments and the revised version can be accepted.

Reviewer #2: No further revision is needed.

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