



Novia Sumardi &lt;novia@ft.unsri.ac.id&gt;

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## Registration Welcome Notification for Biomass Conversion and Biorefinery

1 pesan

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**BCAB - Editorial Office** <em@editorialmanager.com>

17 November 2022 pukul  
03.01

Balas Ke: BCAB - Editorial Office <denisse.mendiola@springer.com>

Kepada: Novia Novia <novia@ft.unsri.ac.id>

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Novia Sumardi &lt;novia@ft.unsri.ac.id&gt;

## BCAB: Reviewer Invitation for Aqueous ammonia soaking pretreatment of spent coffee grounds for enhanced enzymatic hydrolysis: A bacterial cellulose production application

2 pesan

Asli Isci Yakan &lt;em@editorialmanager.com&gt;

17 November 2022 pukul  
03.01

Balas Ke: Asli Isci Yakan &lt;bcab5@tuhh.de&gt;

Kepada: Novia Novia &lt;novia@ft.unsri.ac.id&gt;

CC: [bcab5@tuhh.de](mailto:bcab5@tuhh.de), [asliisciyakan@gmail.com](mailto:asliisciyakan@gmail.com)

Dear Dr. Novia,

As the Editor of the journal Biomass Conversion and Biorefinery I want to ask you if you could review the article "Aqueous ammonia soaking pretreatment of spent coffee grounds for enhanced enzymatic hydrolysis: A bacterial cellulose production application" for a possible publication in our journal.

This is the abstract:

In the present work, aqueous ammonia soaking (AAS) was examined as a potential pretreatment stage of spent coffee grounds (SCG), to enhance their enzymatic hydrolysis. The studied parameters were treatment time (30-360 min), SCG solids loading (5-20% w/v), and temperature (40-80°C). Each parameter was studied individually while keeping the other parameters constant. Following the AAS, the pretreated SCG were subjected to enzymatic hydrolysis using commercial preparations of cellulases and hemicellulases. The obtained hydrolysate was subsequently used as an alternative carbon source for the production of bacterial cellulose. Fourier-transform infrared spectroscopy (FT-IR), Confocal Laser Scanning Microscopy (CLSM), and Scanning Electron Microscopy (SEM) of the samples before and after pretreatment were performed in order to evaluate compositional and morphological changes of the biomass materials. Reducing sugars obtained from the ammonia-pretreated and saccharified samples were measured by HPLC. Optimization for total sugars present in the hydrolysate was noted at 120 min, 10% w/v solids concentration, 60°C with the use of ~28-30% v/v aqueous ammonia. The SCG hydrolysate was used as the sole carbon source for the growth of a *Komagataeibacter sucrofermentans* strain, and bacterial cellulose was successfully produced.

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Your username is: Novia Novia

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The manuscript reference is BCAB-D-22-03239.

If possible, I would appreciate receiving your review in 30 days. You may submit your comments online at the above URL. There you will find spaces for confidential comments to the editor, comments for the author and a report form to be completed.

With kind regards

Dr. Asli Isci Yakan  
Associate Editor

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**Novia Sumardi** <novia@ft.unsri.ac.id>  
Kepada: Asli Isci Yakan <bcab5@tuhh.de>

17 November 2022 pukul 10.20

Dear Dr. Asli Isci Yakan  
I would review ASAP  
Regards  
Novia  
[Kutipan teks disembunyikan]



Novia Sumardi &lt;novia@ft.unsri.ac.id&gt;

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**BCAB-D-22-03239 - thank you for agreeing -  
[EMID:3597709b068d816b]**

1 pesan

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**BCAB - Editorial Office** <em@editorialmanager.com>17 November 2022 pukul  
10.23

Balas Ke: BCAB - Editorial Office &lt;denisse.mendiola@springer.com&gt;

Kepada: Novia Novia &lt;novia@ft.unsri.ac.id&gt;

BCAB-D-22-03239

"Aqueous ammonia soaking pretreatment of spent coffee grounds for enhanced enzymatic hydrolysis: A bacterial cellulose production application"  
Biomass Conversion and Biorefinery

Dear Dr. Novia,

Thank you for agreeing to review the above manuscript.

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We look forward receiving your review by 16 Dec 2022.

<only add if applicable> In order to add the due date to your electronic calendar, please open the attached file.

If you have any questions, please do not hesitate to contact us. We appreciate your assistance.

With kind regards,

Asli Isci Yakan  
Associate Editor

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**Reviewer Recommendation and Comments for Manuscript Number BCAB-D-22-03239****Aqueous ammonia soaking pretreatment of spent coffee grounds for enhanced enzymatic hydrolysis: A bacterial cellulose production application**

Original Submission  
Novia Novia **Reviewer 3**

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**Recommendation:** Major Revisions Needed

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Yes



## Reviewer Comments to Author

The research paper entitled: Aqueous ammonia soaking pretreatment of spent coffee grounds for enhanced enzymatic hydrolysis: A bacterial cellulose production application (with the manuscript number: BCAB-D-22-03239). The manuscript still needs improvement in some parts of the manuscript. Therefore, the manuscript cannot be recommended in its current form. A major revision is required.

Although refining lignocellulose wastes are at the top of interest, several issues should be addressed before the manuscript publication. The references used are still few (They should use more than 50 reference). In the introduction, it is necessary to include even more previous research that previous authors have done.

### Abstract:

A brief research background also needs to be included in the abstract. What is the optimum value of total sugars of enzymatic hydrolysis? It needs to be included in the abstract.

### Introduction

There are many published works on this topic. The introduction should contain more previous research related to this research topic. In order to make it appear that this research is up to date. Also explain the shortcomings of the study so that this topic was chosen. Previous researches about spent coffee ground, AAS pretreatment, enzymatic hydrolysis, bacterial cellulose production, etc., should be explain in the introduction.

Example of reference that can be used:

<https://doi.org/10.3390/fermentation8040157>

<https://doi.org/10.1016/j.biteb.2019.100187>

<https://doi.org/10.1007/s13205-018-1186-2>

In the introduction, it is necessary to explain why you have to use hydrolysate resulting from enzymatic hydrolysis to produce bacterial cellulose? Why don't use SGS directly?

Page 4 Line 55: "Aqueous ammonia removes lignin selectively, retains rather intact both hexose- and pentose-based carbohydrates, and at the same time, reduces the crystal regions of cellulose, provokes swelling of the matrix, and enhances its porosity" this statement should be supported by previous research (mention the reference).

Page 9. Line 7-12: "AAS presents further advantages, such as the prevention of enzyme-inhibiting compound formation and a low operational cost." (mention the citation)

### Materials and Methods

Page. 8 Line 4: Authors don't need to make table 1, since they already mention in the paragraph.

### Results and Discussion

In order to know AAS as a potential pretreatment stage for the enzymatic hydrolysis of SCG. Authors should mention the chemical composition of SGC before and after pretreatment (the content of cellulose, hemicellulose, lignin and others).

Page. 12 Line 58: "These findings are in conformity with the....."

Page. 13 Line 12-17: "Cayetano et al. [20], using African maize bran as raw material, studied the effect of temperature, solids loading, and time of AAS, for the production of methane.". This previous study cannot be compared with this study because of the different products of different treatments.

Page. 12 Line 44-47: In the caption of Figure 2 should explain the letters (notations) "a", "b", "c", "bc", "de", "cd" ect.

Page. 14 Line 60: "(and Figures S1 - S3 provided in online resource)" should be omitted due to not part of the manuscript.

Page. 15 Line 7: "Tables ST1 - ST4 in the online resource" should be omitted.

Page. 19 Line 60: Authors should give more explanation about Figure 4 and compare the result with other research.

#### Conclusions

The optimum value of total sugars of enzymatic hydrolysis should be add in conclusion.

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#### Reviewer Confidential Comments to Editor:

The research paper entitled: Aqueous ammonia soaking pretreatment of spent coffee grounds for enhanced enzymatic hydrolysis: A bacterial cellulose production application (with the manuscript number: BCAB-D-22-03239). The manuscript still needs improvement in some parts of the manuscript. Therefore, the manuscript cannot be recommended in its current form. A major revision is required.

Although refining lignocellulose wastes are at the top of interest, several issues should be addressed before the manuscript publication.

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ments)

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ments	3	BCAB-D-22-03239	Original Article	Aqueous ammonia soaking pretreatment of spent coffee grounds for enhanced enzymatic hydrolysis: A bacterial cellulose production application	Required Reviews Completed		16 Nov 2022	16 Nov 2022	16 Nov 2022

ments)



Novia Sumardi &lt;novia@ft.unsri.ac.id&gt;

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**BCAB: Thank you for the review of BCAB-D-22-03239**2 pesan

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**Asli Isci Yakan** <em@editorialmanager.com>23 November 2022 pukul  
13.01Balas Ke: Asli Isci Yakan <bcab5@tuhh.de>  
Kepada: Novia Novia <novia@ft.unsri.ac.id>

Ref.:

Ms. No. BCAB-D-22-03239

Aqueous ammonia soaking pretreatment of spent coffee grounds for enhanced enzymatic hydrolysis: A bacterial cellulose production application  
Biomass Conversion and Biorefinery

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Thank you again for your support.

Kind regards,

Dr. Asli Isci Yakan  
Associate Editor  
Biomass Conversion and Biorefinery

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**Novia Sumardi** <[novia@ft.unsri.ac.id](mailto:novia@ft.unsri.ac.id)>  
Kepada: Asli Isci Yakan <[bcab5@tuhh.de](mailto:bcab5@tuhh.de)>

10 Desember 2022 pukul 12.24

Dear Dr. Asli Isci Yakan

Could you please give a certified reviewer for reviewing the last manuscript?

Regards

Novia

[Kutipan teks disembunyikan]