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FAKULTAS TEKNOLOGI INDUSTRI

UNIVERSITAS JAYABAYA

BCAB: Reviewer Invitation for Production of sustainable rigid polyurethane foam from chemically modified underutilized Jatropha curcas L seed oil

Dari: Martin Kaltschmitt (em@editorialmanager.com)

Kepada: flora_elvistia@yahoo.com

Tanggal: Minggu, 1 Agustus 2021 16.35 GMT+7

CC: kaltschmitt@tu-harburg.de

Dear Dr. Firdaus,

As the Editor of the journal Biomass Conversion and Biorefinery I want to ask you if you could review the article "Production of sustainable rigid polyurethane foam from chemically modified underutilized Jatropha curcas L seed oil" for a possible publication in our journal.

This is the abstract:
Environmental awareness has revitalized utilization of bio-based resources as precursors for industrial applications. Natural lipids from plants and animals (macro and microorganisms) are among the recent sustainable resources used as alternative to petroleum-based resources in industrial applications. Bio-based rigid polyurethane foam (RPUF) was prepared from polymerization reaction between 4, 4–diphenyl methylene diisocyanate (MDI) and epoxidized/hydroxylated Jatropha curcas L oil (JCO) using 2-shot technique. Synthesized J. curcas polyol (JCP)-based RPUF was characterized using Fourier transform infrared (FTIR) spectroscopy, scanning electron microscopy (SEM), thermogravimetric (TGA) and derivative thermogravimetric analyses (DTG). Core density, porosity and compressive strength were equally evaluated. The stretching vibration at 3324.8, 1712.64, 1531.01 and peak at 1250.16 cm -1 confirmed formation of urethane bond. The cellular structure of JCP–based RPUF
indicated its applicability as buoyancy material in aerospace engineering. Thermal stability from TGA/DTG showed suitability of the synthesized bi–based polymer as a potential material for industrial applications. Core density > 40 kg/m 3 showed potential ability of JCP–based RPUF to be useful in production aircraft, boat and automobile panels. Porosity > 70% revealed synthesized polymer to be useful in bone tissue engineering for biomedical applications. Compressive strength > 100 kPa validated synthesized JCP–based RPUF to possess impart absorbing property for production of packaging and equipment protecting material.

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The manuscript reference is BCAB-D-21-01195.

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

Prof. Dr.-Ing. Martin Kaltschmitt
Editor-in-Chief

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BCAB: Thank you for the review of BCAB-D-21-01195

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Kepada: flora_elvistia@yahoo.com

Tanggal: Minggu, 8 Agustus 2021 10.48 GMT+7

Ref.:
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Production of sustainable rigid polyurethane foam from chemically modified underutilized Jatropha curcas L seed oil
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Dear Dr. Firdaus,

Thank you for your review of this manuscript. Springer Nature strives to create and publish research materials of the highest quality. Your contribution has helped us further this mission, and for that you have our sincerest appreciation.

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Thank you again for your support.

Kind regards,

Prof. Dr.-Ing. Martin Kaltschmitt
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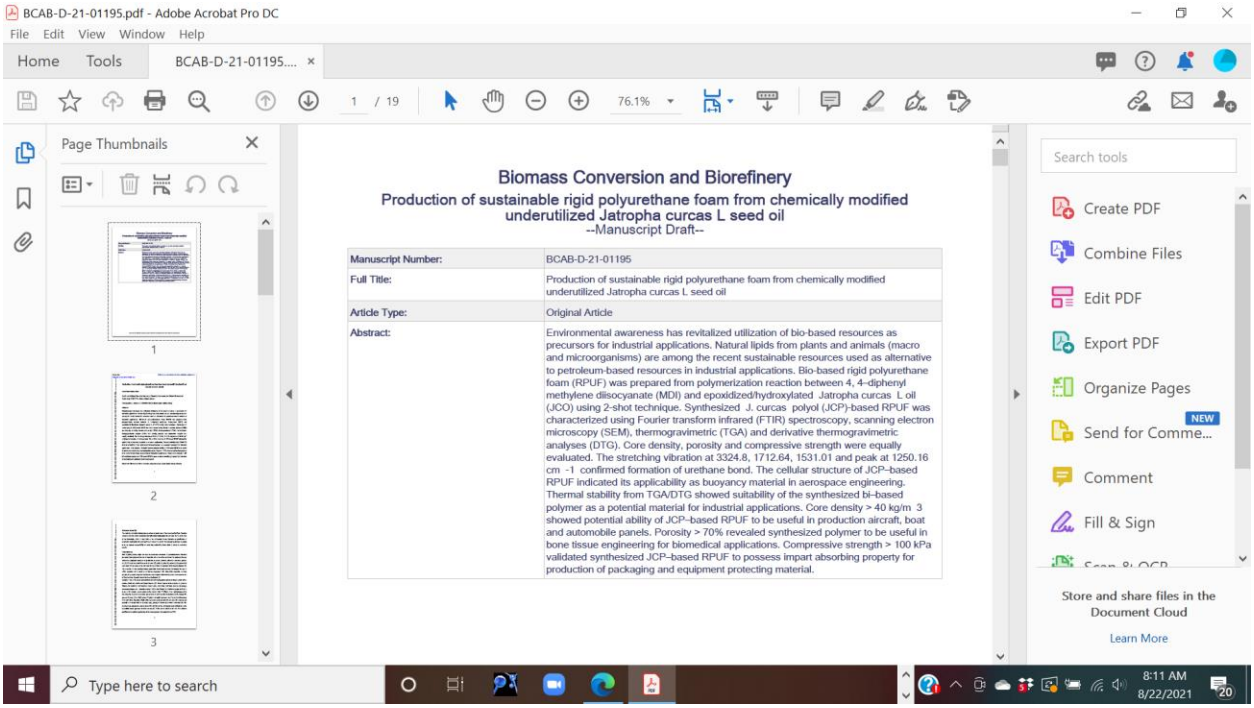
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--Manuscript Draft--
Manuscript Number: BCAB-D-21-01195
Full Title: Production of sustainable rigid polyurethane foam from chemically modified underutilized Jatropha curcas L seed oil
Article Type: Original Article
Abstract: Environmental awareness has revitalized utilization of bio-based resources as precursors for industrial applications. Natural lipids from plants and animals (macro and microorganisms) are among the recent sustainable resources used as alternative to petroleum-based resources in industrial applications. Bio-based rigid polyurethane foam (RPUF) was prepared from polymerization reaction between 4, 4–diphenyl methylene diisocyanate (MDI) and epoxidized/hydroxylated Jatropha curcas L oil (JCO) using 2-shot technique. Synthesized J. curcas polyol (JCP)-based RPUF was characterized using Fourier transform infrared (FTIR) spectroscopy, scanning electron microscopy (SEM), thermogravimetric (TGA) and derivative thermogravimetric analyses (DTG). Core density, porosity and compressive strength were equally evaluated. The stretching vibration at 3324.8, 1712.64, 1531.01 and peak at 1250.16 cm -1 confirmed formation of urethane bond. The cellular structure of JCP–based RPUF indicated its applicability as buoyancy material in aerospace engineering. Thermal stability from TGA/DTG showed suitability of the synthesized bi–based polymer as a potential material for industrial applications. Core density > 40 kg/m 3 showed potential ability of JCP–based RPUF to be useful in production aircraft, boat and automobile panels. Porosity > 70% revealed synthesized polymer to be useful in bone tissue engineering for biomedical applications. Compressive strength > 100 kPa validated synthesized JCP–based RPUF to possess impart absorbing property for production of packaging and equipment protecting material.
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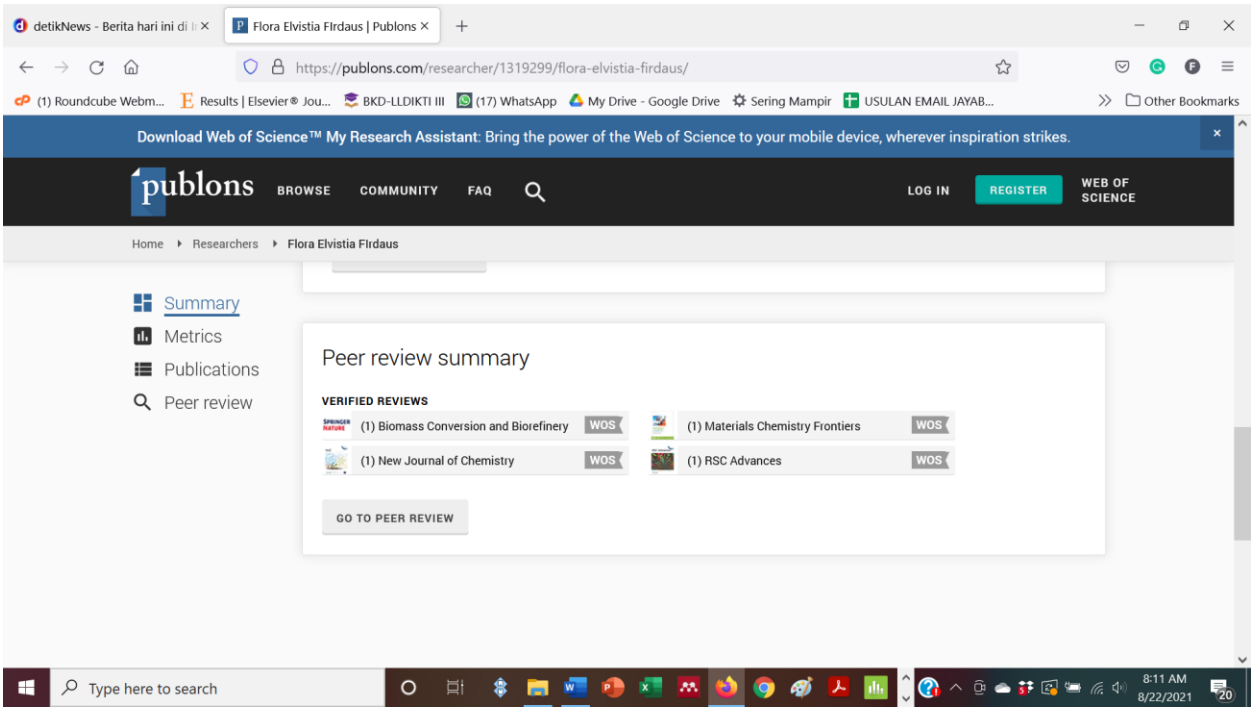
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