**REKAM JEJAK SEBAGAI REVIEWER**

Judul Artikel : Dimensional-Analysis and Similitude for Scale-up of Solid-Liquid Extraction of Eurycoma Longifolia Roots

Jurnal : Chemical Engineering Science on May 18, 2020

Authors : Harun, Noor Hafiza; Abdul-Aziz, Azila; Rahman, Roshanida A.; Yaakub, Harisun; Aziz, Ramlan; Ware, Ismail

| No | Tanggal | Kegiatan |
|---|---|---|
| 1 | Wed, Jul 3, 2019 at 9:36 PM | Permintaan mereview artikel CES-D-19-00687 tahap 1 |
| 2 | Thu, Jul 4, 2019 at 9:07 AM | Informasi batas waktu mereview tahap 1 |
| 3 | Fri, Jul 19, 2019 at 8:44 AM | Informasi batas waktu mereview tahap 1 segera berakhir |
| 4 | Fri, Jul 26, 2019 at 3:27 PM | Mereview tahap 1 sudah selesai (Lampiran dari sistem jurnal) |
| 5 | Fri, Oct 4, 2019 at 8:43 AM | Permintaan mereview tahap 2 |
| 6 | Fri, Oct 11, 2019 at 9:25 PM | Informasi batas waktu mereview tahap 2 |
| 7 | Fri, Oct 25, 2019 at 8:41 AM | Informasi batas waktu mereview tahap 2 segera berakhir |
| 8 | Tue, Oct 29, 2019 at 8:45 AM | Mereview tahap 2 sudah selesai (Lampiran dari sistem jurnal) |

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**Mega wati <megawati@mail.unnes.ac.id>**

# CES-D-19-00687: Request to Review

**Kai Sundmacher** <eesserver@eesmail.elsevier.com> Wed, Jul 3, 2019 at 9:36 PM
Reply-To: Kai Sundmacher <ces@mpi-magdeburg.mpg.de>
To: megawati@mail.unnes.ac.id

Ms. No.: CES-D-19-00687
Title: Dimensional-Analysis and Similitude for Scale-up of Solid-Liquid Extraction of Eurycoma Longifolia Roots
Corresponding Author: Dr. Azila Abdul Aziz
Authors: Noor Hafiza Harun, MSc. in Bioprocess Engineering; Roshanida A Rahman, PhD in in Environmental Engineering; Harisun Yaakub, Ph.D in Biological Sciences; Ramlan Aziz, MSc. in Chemical Engineering; Ismail Ware, MSc. in Bioprocess Engineering

Dear Dr. Megawati,

The above-referenced manuscript has been submitted to Chemical Engineering Science, and I would greatly appreciate your help in evaluating its quality. Reviews from the most active and knowledgeable researchers are necessary for the quality of CES, and I am grateful for your assistance.

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Chemical Engineering Science, Editorial Office
E-mail: chemicales@elsevier.com

Abstract:

A dimensionless model was proposed to scale-up the solid-liquid extraction of Eurycoma longifolia roots. ShSc-1 dimensionless number was found to be the best fit of all proposed models. At optimum conditions of the extraction process, the extract yield of 8.77% at lab-scale produced ShSc-1 no. of 0.0312. Employing the scale up rule of P/V idem and scale-up factor of 7.65, the extract yield of 8.65% with 1.37% error was obtained at pilot-scale at ShSc-1 no. of 0.0376. The outcome of this study provided useful scale-up knowledge in ensuring smooth transition from lab-scale to pilot-scale.

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# CES-D-19-00687: Review Information

**Kai Sundmacher** <eesserver@eesmail.elsevier.com> Thu, Jul 4, 2019 at 9:07 AM
Reply-To: Kai Sundmacher <ces@mpi-magdeburg.mpg.de>
To: megawati@mail.unnes.ac.id

*** Automated email sent by the system ***

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Dear Dr. Megawati,

Thank you for agreeing to review the above-mentioned manuscript, which has been submitted to Chemical Engineering Science. Our goal is to provide as rapid a response as possible to the authors. Therefore, we ask that you kindly review this manuscript as soon as possible. Should you be unable to review the manuscript by Jul 25, 2019, please notify us immediately.

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# CES-D-19-00687: Review due soon

**Professor Kai Sundmacher** <eesserver@eesmail.elsevier.com> Fri, Jul 19, 2019 at 8:44 AM
Reply-To: Professor Kai Sundmacher <ces@mpi-magdeburg.mpg.de>
To: megawati@mail.unnes.ac.id, megawatie@yahoo.com

*** Automated mail sent on behalf of Antony Reagan ***

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Dear Dr. Megawati,
You kindly accepted our invitation and agreed to review the aforementioned manuscript on Jul 04, 2019

This is a courtesy reminder that your review of this manuscript (please see abstract below) is due on: Jul 25, 2019.

If you anticipate that your review will be delayed for any reason, we would appreciate it if you would reply to this email and let us know. As you know, timely reviews are important to authors and are pivotal to the peer review process.

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Professor Kai Sundmacher
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ABSTRACT: A dimensionless model was proposed to scale-up the solid-liquid extraction of Eurycoma longifolia roots. ShSc-1 dimensionless number was found to be the best fit of all proposed models. At optimum conditions of the extraction process, the extract yield of 8.77% at lab-scale produced ShSc-1 no. of 0.0312. Employing the scale up rule of P/V idem and scale-up factor of 7.65, the extract yield of 8.65% with 1.37% error was obtained at pilot-scale at ShSc-1 no. of 0.0376. The outcome of this study provided useful scale-up knowledge in ensuring smooth transition from lab-scale to pilot-scale.

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# CES-D-19-00687: Review Completed

**Kai Sundmacher** <eesserver@eesmail.elsevier.com> Fri, Jul 26, 2019 at 3:27 PM
Reply-To: Kai Sundmacher <ces@mpi-magdeburg.mpg.de>
To: megawati@mail.unnes.ac.id, megawatie@yahoo.com

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Ms. No.: CES-D-19-00687
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# CES-D-19-00687R1: Review Invitation Reminder

**Professor Kai Sundmacher** <eesserver@eesmail.elsevier.com> Fri, Oct 4, 2019 at 8:43 AM
Reply-To: Professor Kai Sundmacher <ces@mpi-magdeburg.mpg.de>
To: megawati@mail.unnes.ac.id, megawatie@yahoo.com

*** Automated mail sent on behalf of Antony Reagan ***

Ms. No.: CES-D-19-00687R1
Title: Dimensional-Analysis and Similitude for Scale-up of Solid-Liquid Extraction of Eurycoma Longifolia Roots
Corresponding Author: Dr. Azila Abdul Aziz
Authors: Noor Hafiza Harun, MSc. in Bioprocess Engineering; Roshanida A Rahman, PhD in in Environmental Engineering; Ismail Ware, MSc. in Bioprocess Engineering; Ramlan Aziz, MSc. in Chemical Engineering; Harisun Yaakub, Ph.D in Biological Sciences

Dear Dr. Megawati,

We recently invited you to review the aforementioned manuscript; however our records indicate that you have not yet responded. We realize that you are very busy, but we value your comments and we would be grateful if you could indicate your willingness to review.

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Kind regards,

Professor Kai Sundmacher
Chemical Engineering Science or its open access mirror

ABSTRACT: A dimensionless model was proposed to scale-up the solid-liquid extraction of Eurycoma longifolia roots. ShSc-1 dimensionless number was found to be the best fit of all proposed models. At optimum conditions of the extraction process which were duration of extraction of 53 minutes, solvent to raw material ratio of 12.5:1 and roots particle size of 0.5 to 1.0 mm, the extract yield of 8.77% at lab-scale produced ShSc-1 no. of 0.0312. Employing the scale up rule of P/V idem and scale-up factor of 7.65, the extract yield of 8.65% with 1.37% error was obtained at pilot-scale at ShSc-1 no. of 0.0376. The outcome of this study provided useful scale-up knowledge in ensuring smooth transition from lab-scale to pilot-scale.

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# CES-D-19-00687R1: Review Information

**Kai Sundmacher** <eesserver@eesmail.elsevier.com> Fri, Oct 11, 2019 at 9:25 PM
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Corresponding Author: Dr. Azila Abdul Aziz
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Dear Dr. Megawati,

Thank you for agreeing to review the above-mentioned manuscript, which has been submitted to Chemical Engineering Science. Our goal is to provide as rapid a response as possible to the authors. Therefore, we ask that you kindly review this manuscript as soon as possible. Should you be unable to review the manuscript by Nov 01, 2019, please notify us immediately.

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With kind regards,

Kai Sundmacher
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# CES-D-19-00687R1: Review due soon

**Professor Kai Sundmacher** <eesserver@eesmail.elsevier.com> Fri, Oct 25, 2019 at 8:41 AM
Reply-To: Professor Kai Sundmacher <ces@mpi-magdeburg.mpg.de>
To: megawati@mail.unnes.ac.id, megawatie@yahoo.com

*** Automated mail sent on behalf of Antony Reagan ***

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# CES-D-19-00687R1: Review Completed

**Kai Sundmacher** <eesserver@eesmail.elsevier.com> Tue, Oct 29, 2019 at 8:45 AM
Reply-To: Kai Sundmacher <ces@mpi-magdeburg.mpg.de>
To: megawati@mail.unnes.ac.id, megawatie@yahoo.com

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Kind regards,

Kai Sundmacher
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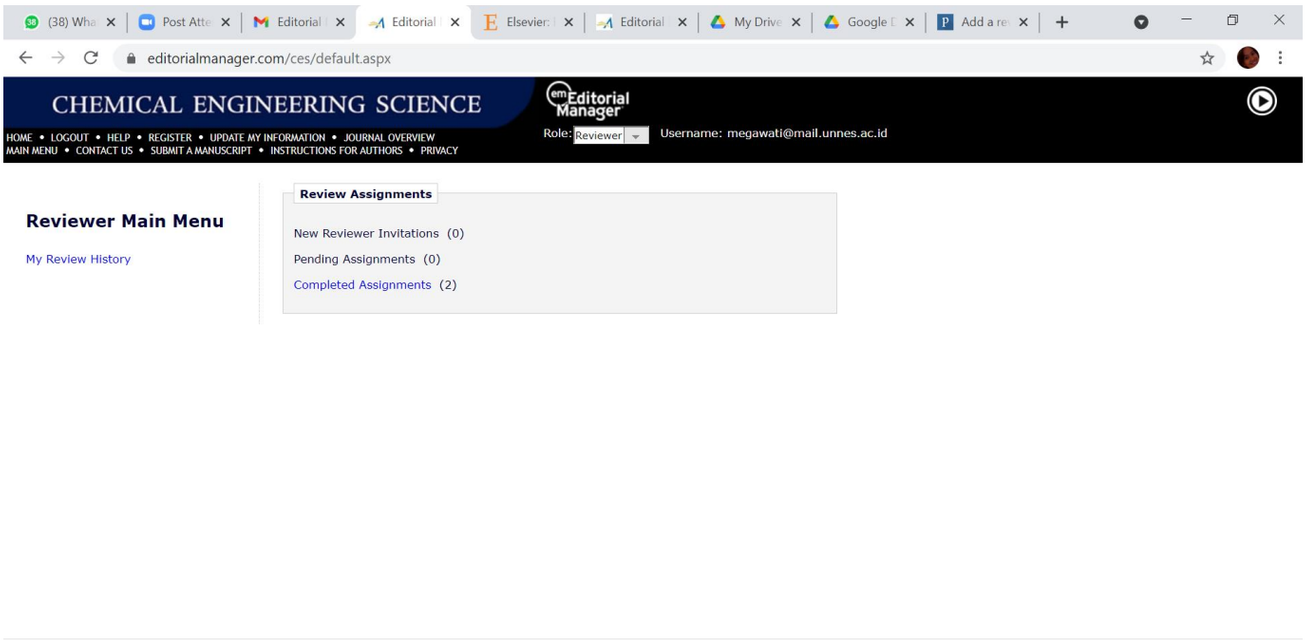
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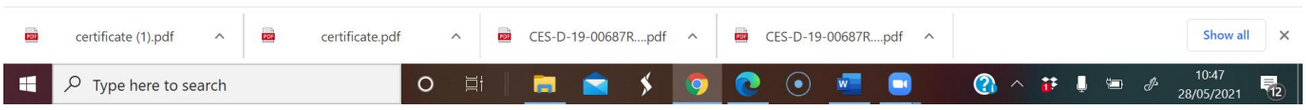
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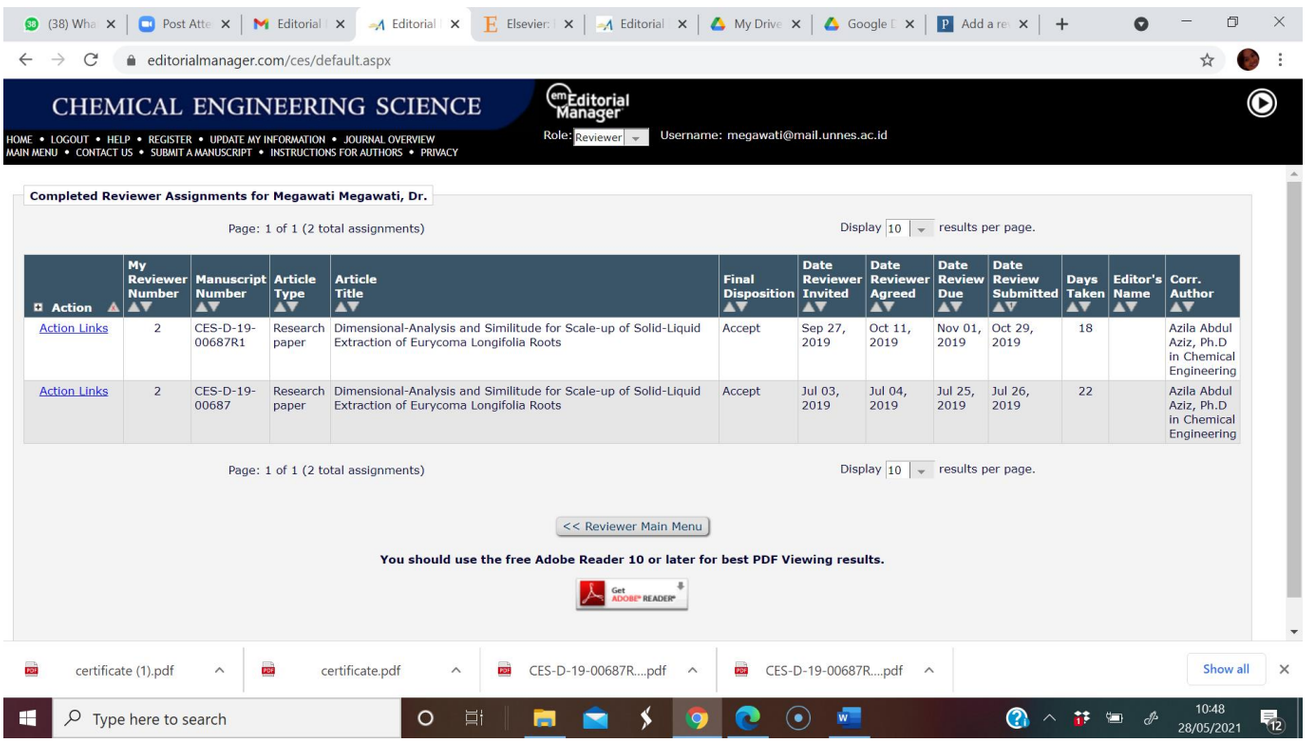
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