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Judul paper : ASPEN plus simulation of liquid-liquid equilibria data for the extraction of aromatics from waste tyre pyrolysis gasoline using organic and deep eutectic solvents: A comparative study

Jurnal : Applied Petrochemical Research

Penerbit : Springer Verlag

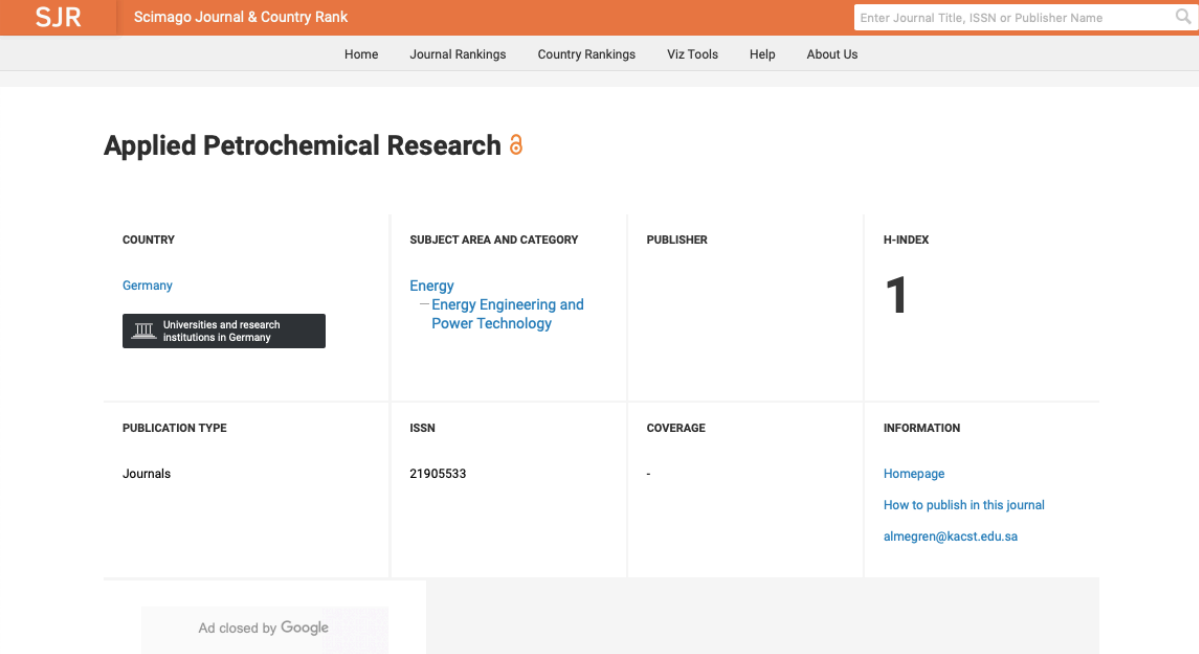
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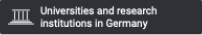
JIF WoS : 0

Penulis : Mohammed Awwalu Usman, Olumide Kayode Fagoroye, Toluwalase Olufunmilayo Ajayi & Abiola John Kehinde

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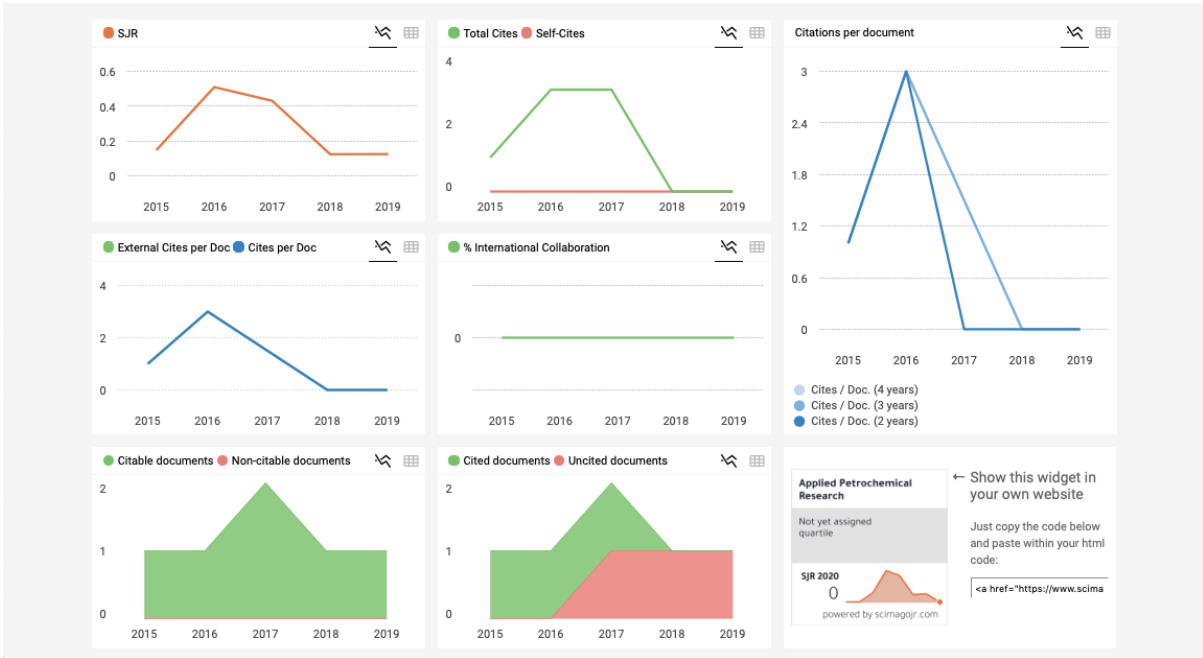
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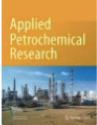
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2.	10 September 2020	Ucapan terima kasih dari editor atas kesediaan untuk mereview artikel pada Journal Applied Petrochemical Research
3.	3 Oktober 2020	Reminder untuk melakukan review dari editor Journal Applied Petrochemical Research
4.	8 Oktober 2020	Username & password jurnal dari editor Journal Applied Petrochemical Research
5.	8 Oktober 2020	Ucapan terima kasih dari editor telah selesai melaksanakan review artikel pada Journal Applied Petrochemical Research

1. Permintaan review jurnal pada Journal Applied Petrochemical Research

APRS: Reviewer Invitation for ASPEN plus simulation of liquid-liquid equilibria data for the extraction of aromatics from waste tyre pyrolysis gasoline using organic and deep eutectic solvents: A comparative study

1 message

Arno de Klerk <em@editorialmanager.com>
Reply-To: Arno de Klerk <deklerk@ualberta.ca>
To: Dewi Selvia Fardhyanti <dewiselvia@mail.unnes.ac.id>

Tue, Sep 8, 2020 at 9:22 PM

CC: deklerk@ualberta.ca, arnodeklerk@gmail.com

Dear Dr. Selvia Fardhyanti,

As the Editor of the journal Applied Petrochemical Research I want to ask you if you could review the article "ASPEN plus simulation of liquid-liquid equilibria data for the extraction of aromatics from waste tyre pyrolysis gasoline using organic and deep eutectic solvents: A comparative study" for a possible publication in our journal.

This is the abstract:

Waste tyre pyrolysis gasoline (WTPG) contain significant amount of aromatics such as benzene, toluene and xylenes (BTX) and thus provide a good source for these value-added chemicals. Separation of aromatics from aliphatic media as obtained in WTPG and naphtha is done commercially by solvent extraction using volatile organic solvents such as sulfolane (SUF), dimethylformamide (DMF) and diethylene glycol (DEG). The high cost of this state-of-the art separation method and environmental consideration have necessitated search for non-volatile and green solvent such as deep eutectic solvent (DES). This study intends to conduct a comparative evaluation of the performance of five solvents (SUF, DMF, DEG, and two DESs) for the extraction of BTX from WTPG. The two DESs are choline chloride/ethylene glycol (DES1) and choline chloride/glycerol (DES2) in molar ratios 1:2. An ASPEN plus simulation was carried out to generate liquid-liquid equilibria (LLE) data for the pseudo-ternary systems (WTPG + BTX + solvent (SUF/DMF/DEG/DES)). Performance evaluation was based on selectivity (S) and solute (BTX) distribution coefficient (D). The propriety of the simulation protocol was validated using literature data. The results revealed the following maximum values of selectivity and distribution coefficient for the solvents: DES2 (S = 374.00, D = 0.6100); DES1 (S = 75.18, D = 0.7624); SUF (S = 53.45, D = 0.6500); DMF (S = 26.70, D = 0.8197) and DEG (S = 17.91, D = 0.7934). The DESs therefore performed better than the organic solvents and can suitably replace same in the extraction of BTX from waste tyre pyrolysis gasoline.

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The manuscript reference is APRS-D-20-00036.

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. Arno de Klerk

2. Ucapan terima kasih dari editor atas kesediaan untuk mereview artikel pada Journal Applied Petrochemical Research



DEWI SELVIA FARDHYANTI <dewiselvia@mail.unnes.ac.id>

APRS: Thank you for agreeing to review

1 message

Arno de Klerk <em@editorialmanager.com>
Reply-To: Arno de Klerk <deklerk@ualberta.ca>
To: Dewi Selvia Fardhyanti <dewiselvia@mail.unnes.ac.id>

Thu, Sep 10, 2020 at 2:27 PM

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With kind regards
Prof. Arno de Klerk
Editor-in-Chief
Applied Petrochemical Research

3. Reminder untuk melakukan review dari editor Journal Applied Petrochemical Research



DEWI SELVIA FARDHYANTI <dewiselvia@mail.unnes.ac.id>

APRS - Review assignment for APRS-D-20-00036 is due soon

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Editorial Office <em@editorialmanager.com>

Sat, Oct 3, 2020 at 11:22 AM

Reply-To: Editorial Office <jade.santos@springer.com>

To: Dewi Selvia Fardhyanti <dewiselvia@mail.unnes.ac.id>

Ref.: Ms. No. APRS-D-20-00036

ASPEN plus simulation of liquid-liquid equilibria data for the extraction of aromatics from waste tyre pyrolysis gasoline using organic and deep eutectic solvents: A comparative study
Applied Petrochemical Research

Dear Dr. Selvia Fardhyanti,

Just as a reminder, your review of manuscript number APRS-D-20-00036 is due by 10 Oct 2020.

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DEWI SELVIA FARDHYANTI <dewiselvia@mail.unnes.ac.id>

Editorial Manager username and password

1 message

Editorial Office <em@editorialmanager.com>
Reply-To: Editorial Office <jade.santos@springer.com>
To: Dewi Selvia Fardhyanti <dewiselvia@mail.unnes.ac.id>

Thu, Oct 8, 2020 at 8:51 AM

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DEWI SELVIA FARDHYANTI <dewiselvia@mail.unnes.ac.id>

APRS: Thank you for the review of APRS-D-20-00036

1 message

Arno de Klerk <em@editorialmanager.com>
Reply-To: Arno de Klerk <deklerk@ualberta.ca>
To: Dewi Selvia Fardhyanti <dewiselvia@mail.unnes.ac.id>

Thu, Oct 8, 2020 at 12:21 PM

Ref.: Ms. No. APRS-D-20-00036
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Applied Petrochemical Research

Dear Dr. Selvia Fardhyanti,

Thank you for your review of this manuscript.

You can access your review comments and the decision letter (when available) by logging onto the Editorial Manager site at:

Your username is: DewiSelvia Fardhyanti

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"ASPEN plus simulation of liquid-liquid equilibria data for the extraction of aromatics from waste tyre pyrolysis gasoline using organic and deep eutectic solvents: A comparative study"
Original Submission

Dewi Selvia Fardhyanti (Reviewer 1)

Reviewer Recommendation Term:		Minor Revisions Needed
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If this submission is transferred to another publication, do we have your consent to include your identifying information?		Yes
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<p>Table 1-2 also describe in Graphic (experimental data vs simulated data) to show the similarity of each data. not only calculate the % error. Why the author did not calculate D & S using experimental LLE data? Tabel 3-7 only show the value of D & S by simulate LLE data Tabel 3-7 : it is better to show tren of D & S in figure (Graphics), the tren value of D & S can show clearly in graphics. page 8 line 51 : please comparing for each physicochemical properties for each solvents... explain it each other clearly. what is the Physicochemical properties standart for the best solvent ?</p>		

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[Mohammed Awwalu Usman](#) , [Olumide Kayode Fagoroye](#), [Toluwalase Olufunmilayo Ajayi](#) & [Abiola John Kehinde](#)

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Waste tyre pyrolysis gasoline (WTPG) contain significant amount of aromatics such as benzene, toluene and xylenes (BTX) and thus provide a good source for these value-added chemicals. Separation of aromatics from aliphatic media as obtained in WTPG and naphtha is done commercially by solvent extraction using volatile

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