



Muslim Uir &lt;muslim@eng.uir.ac.id&gt;

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**Abdurrahman, Muslim ao-2022-08085e Assigned to Editor 22-Dec-2022**

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ACS Omega &lt;onbehalf@manuscriptcentral.com&gt;

Fri, Dec 23, 2022 at 1:03 AM

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22-Dec-2022

Journal: ACS Omega

Manuscript ID: ao-2022-08085e

Title: "Minimum CO2 Miscibility Pressure Evaluation using Interfacial Tension (IFT) and Slim-tube Hybrid Tests"

Author(s): Abdurrahman, Muslim ; Permadi, Asep Kurnia; Arsad, Agus; Abdul Rahman, Anis Farhana; Bae, Wisup; Husna, Uly; Pang, Ai Ling; Fauzi, Rifal

Manuscript Status: Associate Editor Assigned

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"Minimum CO2 Miscibility Pressure Evaluation using Interfacial Tension (IFT) and Slim-tube Hybrid Tests" has been assigned to the following editor:

Dr. Deqing Zhang

Coeditor

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## Abdurrahman, Muslim ao-2022-08085e - Manuscript Revision Request 12-Jan-2023

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Thu, Jan 12, 2023 at 10:37 PM

Reply-To: Zhang-office@omega.acs.org

To: muslim@eng.uir.ac.id

12-Jan-2023

Journal: ACS Omega

Manuscript ID: ao-2022-08085e

Title: "Minimum CO<sub>2</sub> Miscibility Pressure Evaluation using Interfacial Tension (IFT) and Slim-tube Hybrid Tests"

Author(s): Abdurrahman, Muslim ; Permadi, Asep Kurnia; Arsad, Agus; Abdul Rahman, Anis Farhana; Bae, Wisup; Husna, Ully; Pang, Ai Ling; Fauzi, Rifal

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"Minimum CO<sub>2</sub> Miscibility Pressure Evaluation using Interfacial Tension (IFT) and Slim-tube Hybrid Tests" has been examined by expert reviewers who have concluded that the work is of interest to the readership of ACS Omega. As indicated in the enclosed documents, the reviewers' comments were generally positive, but certain improvements are suggested. I would be pleased to consider further for publication a revised manuscript by 26-Jan-2023 at the latest, that addresses the concerns of the reviewers.

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Email: [Zhang-office@omega.acs.org](mailto:Zhang-office@omega.acs.org)

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Reviewer(s)' Comments to Author:

Reviewer: 1

Recommendation: Publish after minor revisions.

Comments:

In this study, Interfacial tension (IFT) and slim-tube tests were used to estimate the MMP value. This study offers an alternative to estimate and evaluate CO<sub>2</sub>-oil MMP for EOR applications accurately and efficiently. I believe the data is exciting and it could be useful for people closer to Petroleum Engineering. The concept itself is interesting and they designed the experiments in a systematic way. The work seems to be the pioneer as I could not see any work published already related to the current manuscript. The abstract is meaningful and clearly describes a comprehensive summary of the research. The manuscript is very informative, and the way information has been presented is quite impressive. All the conclusions and claims throughout the study have been well supported by the data. There are a good number of figures and graphs to represent the visual description of the data to assist the reader. I recommend the publication of the manuscript in the ACS Omega. However, a few minor issues need to be addressed.

I strongly recommend the authors add one paragraph discussing the difference between their work and the previously performed studies in the literature.

Also, the quality of figure 2 should be improved. The text is not clear  
In figure 3, oil and toluene are not clearly written. Please fix this issue

Additional Questions:

Is the technical quality of the research reported within valid and appropriate?: Yes

Please evaluate the degree of novelty and originality of the research reported: Excellent

Are the conclusions adequately supported by the data presented?: Yes

Are the literature references appropriate and up to date?: Yes

Reviewer: 2

Recommendation: Publish after minor revisions.

Comments:

1- The ending of the Introduction Section is not significant. It would be better to write more about the necessity and importance of current study.

2- It will be useful to add one paragraph to tell the reader about the "practical utilization" of these results and future aspects in the Conclusion Section.

3- Provide the "Abbreviations" list alphabetically.

4- I think within the "introduction" section you can use the following articles as references:

- <https://doi.org/10.3311/PPch.15980>
- <https://doi.org/10.1016/j.petrol.2020.107491>
- <https://doi.org/10.1016/j.jngse.2014.06.006>
- <https://doi.org/10.1080/15567036.2018.1549170>

5- The stated problem (CO<sub>2</sub>-EOR) has a known and mature background; however, current manuscript contributes less than expectations. Can the author add more valuable solutions to enhance oil recovery? Hence, it will represent novel research.

Additional Questions:

Is the technical quality of the research reported within valid and appropriate?: Yes

Please evaluate the degree of novelty and originality of the research reported: Good

Are the conclusions adequately supported by the data presented?: Yes

Are the literature references appropriate and up to date?: Yes

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**Abdurrahman, Muslim ao-2022-08085e.R2 - Reminder: Revision Due in 7 days 10-Feb-2023**

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Fri, Feb 10, 2023 at 12:41 PM

Reply-To: Zhang-office@omega.acs.org

To: muslim@eng.uir.ac.id

10-Feb-2023

Journal: ACS Omega

Manuscript ID: ao-2022-08085e.R2

Title: Minimum CO2 Miscibility Pressure Evaluation using Interfacial Tension (IFT) and Slim-tube Hybrid Tests

Author(s): Abdurrahman, Muslim ; Permadi, Asep Kurnia; Arsad, Agus; Abdul Rahman, Anis Farhana; Bae, Wisup; Husna, Uilly; Pang, Ai Ling; Fauzi, Rifal

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We look forward to hearing from you and please let us know if you have any questions.

Sincerely,

Dr. Deqing Zhang

Coeditor

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Fri, Jan 20, 2023 at 12:38 PM

20-Jan-2023

Journal: ACS Omega  
Manuscript ID: ao-2022-08085e  
Title: Minimum CO<sub>2</sub> Miscibility Pressure Evaluation using Interfacial Tension (IFT) and Slim-tube Hybrid Tests  
Author(s): Abdurrahman, Muslim ; Permadi, Asep Kurnia; Arsad, Agus; Abdul Rahman, Anis Farhana; Bae, Wisup; Husna, Ulliy; Pang, Ai Ling; Fauzi, Rifal

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02-Feb-2023

Journal: ACS Omega

Manuscript ID: ao-2022-08085e.R1

Title: Minimum CO2 Miscibility Pressure Evaluation using Interfacial Tension (IFT) and Slim-tube Hybrid Tests

Author(s): Abdurrahman, Muslim ; Permadi, Asep Kurnia; Arsad, Agus; Abdul Rahman, Anis Farhana; Bae, Wisup; Husna, Uilly; Pang, Ai Ling; Fauzi, Rifal

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**Abdurrahman, Muslim ao-2022-08085e.R1 Assigned to Editor 25-Jan-2023**

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25-Jan-2023

Journal: ACS Omega

Manuscript ID: ao-2022-08085e.R1

Title: "Minimum CO2 Miscibility Pressure Evaluation using Interfacial Tension (IFT) and Slim-tube Hybrid Tests"

Author(s): Abdurrahman, Muslim ; Permadi, Asep Kurnia; Arsad, Agus; Abdul Rahman, Anis Farhana; Bae, Wisup; Husna, Uly; Pang, Ai Ling; Fauzi, Rifal

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14-Feb-2023

Journal: ACS Omega

Manuscript ID: ao-2022-08085e.R3

Title: "Minimum CO2 Miscibility Pressure Evaluation using Interfacial Tension (IFT) and Slim-tube Hybrid Tests"

Author(s): Abdurrahman, Muslim ; Permadi, Asep Kurnia; Bae, Wisup; Arsad, Agus; Abdul Rahman, Anis Farhana; Husna, Uly; Pang, Ai Ling; Fauzi, Rifal

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## Abdurrahman, Muslim ao-2022-08085e.R1 - Manuscript Revision Request - Formatting Changes 31-Jan-2023

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ACS Omega &lt;onbehalf@manuscriptcentral.com&gt;

Tue, Jan 31, 2023 at 8:56 PM

Reply-To: Zhang-office@omega.acs.org

To: muslim@eng.uir.ac.id

31-Jan-2023

Journal: ACS Omega

Manuscript ID: ao-2022-08085e.R1

Title: "Minimum CO2 Miscibility Pressure Evaluation using Interfacial Tension (IFT) and Slim-tube Hybrid Tests"

Author(s): Abdurrahman, Muslim ; Permadi, Asep Kurnia; Arsad, Agus; Abdul Rahman, Anis Farhana; Bae, Wisup; Husna, Ully; Pang, Ai Ling; Fauzi, Rifal

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**Abdurrahman, Muslim ao-2022-08085e.R2 Assigned to Editor 04-Feb-2023**

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Sat, Feb 4, 2023 at 5:14 PM

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04-Feb-2023

Journal: ACS Omega

Manuscript ID: ao-2022-08085e.R2

Title: "Minimum CO2 Miscibility Pressure Evaluation using Interfacial Tension (IFT) and Slim-tube Hybrid Tests"

Author(s): Abdurrahman, Muslim ; Permadi, Asep Kurnia; Arsad, Agus; Abdul Rahman, Anis Farhana; Bae, Wisup; Husna, Uly; Pang, Ai Ling; Fauzi, Rifal

Manuscript Status: Associate Editor Assigned

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"Minimum CO2 Miscibility Pressure Evaluation using Interfacial Tension (IFT) and Slim-tube Hybrid Tests" has been assigned to the following editor:

Dr. Deqing Zhang

Coeditor

ACS Omega

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08-Feb-2023

Journal: ACS Omega

Manuscript ID: ao-2022-08085e.R2

Title: "Minimum CO<sub>2</sub> Miscibility Pressure Evaluation using Interfacial Tension (IFT) and Slim-tube Hybrid Tests"

Author(s): Abdurrahman, Muslim ; Permadi, Asep Kurnia; Arsad, Agus; Abdul Rahman, Anis Farhana; Bae, Wisup; Husna, Ully; Pang, Ai Ling; Fauzi, Rifal

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**Abdurrahman, Muslim ao-2022-08085e.R3 - Manuscript Accepted 14-Feb-2023**

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Tue, Feb 14, 2023 at 7:21 PM

14-Feb-2023

Journal: ACS Omega  
Manuscript ID: ao-2022-08085e.R3  
Title: "Minimum CO2 Miscibility Pressure Evaluation using Interfacial Tension (IFT) and Slim-tube Hybrid Tests"  
Author(s): Abdurrahman, Muslim ; Permadi, Asep Kurnia; Arsad, Agus; Abdul Rahman, Anis Farhana; Bae, Wisup; Husna, Ully; Pang, Ai Ling; Fauzi, Rifal  
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