

# Outline Korespondensi “Cogent Engineering”

1. Submission received for Cogent Engineering – Kamis,13 Januari 2022
2. A revise decision has been made on your submission – Kamis – 17 Februari 2022
3. Revised submission received for Cogent Engineering - Senin, 28 Maret 2022
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Cogent Engineering  
Volume 9, 2022 - Issue 1

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MECHANICAL ENGINEERING

Hydrodynamic lubrication analysis of hydrophobic textured journal bearing considering cavitation

Mohammad Tauvqiirrahman, Jamari Jamari, Muchammad Muchammad, Azis Ardiansyah, Budi Setiyana & Paryanto Paryanto | ...show all

Article: 2069997 | Received 12 Jan 2022, Accepted 15 Apr 2022, Published online: 26 May 2022

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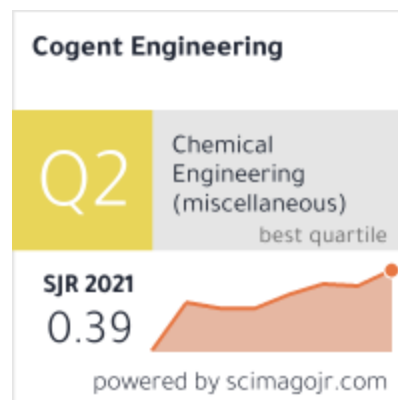
In this article

Abstract

Related research

tauv

Highlight All Match Case Match Diacritics Whole Words 1 of 1 match





# 1. Submission received for Cogent Engineering – Kamis,13 Januari 2022

The screenshot shows an email interface with a dark sidebar on the left containing folders like 'Email Masuk', 'Belum Dibaca', 'Berbintang', 'Draft', 'Ter kirim', 'Semua Email', 'Spam', and 'Sampah'. The main content area displays an email from 'rpsupport@tandf.co.uk' to 'mohammad.tauviqirrahman@ft.undip.ac.id' dated 'Kam, 13 Jan jam 08.09'. The email body features the Taylor & Francis logo and the following text:

Dear Mohammad Tauviqirrahman,

Thank you for your submission.

Submission ID            228654778  
Manuscript Title        Study on the Influence of Texturing Combined with Boundary Slip on the Lubrication Considering the Cavitation  
Journal                    Cogent Engineering

You can check the progress of your submission, and make any requested revisions, on the [Author Portal](#).

Thank you for submitting your work to our journal.  
If you have any queries, please get in touch with [OAEN-peerreview@journals.tandf.co.uk](mailto:OAEN-peerreview@journals.tandf.co.uk).

Kind Regards,  
Cogent Engineering Editorial Office

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At the bottom of the email content, there is a navigation bar with arrows and a menu icon.

Submission received for Cogent Engineering (Submission ID: 228654778)  
mohammad.tauviqirrahman/Email Masuk

rpsupport@tandf.co.uk  
Kepada:mohammad.tauviqirrahman@ft.undip.ac.id  
Kam, 13 Jan jam 08.09



---

Dear Mohammad Tauviqirrahman,

Thank you for your submission.

Submission ID           **228654778**  
Manuscript Title       **Study on the Influence of Texturing Combined with Boundary  
Slip on the Lubrication Considering the Cavitation**  
Journal                   **Cogent Engineering**

You can check the progress of your submission, and make any requested revisions, on the [Author Portal](#).

Thank you for submitting your work to our journal.

If you have any queries, please get in touch with [OAEN-peerreview@journals.tandf.co.uk](mailto:OAEN-peerreview@journals.tandf.co.uk).

Kind Regards,  
*Cogent Engineering* Editorial Office

## 2. A revise decision has been made on your submission – Kamis – 17 Februari 2022

The screenshot shows a Yahoo! Mail interface. The email is from **editorialmanager** (editorialmanager.com) with the subject **228654778 (Cogent Engineering) A revise decision has been made on your submission**. The sender is **Cogent Engineering** (em@editorialmanager.com) and the recipient is **Mohammad Tauviriqrahman**. The email is dated **Kam, 17 Feb jam 06.51**.

The email content includes the following information:

- Ref:** COGENTENG-2022-0016  
228654778
- Study on the Influence of Texturing Combined with Boundary Slip on the Lubrication Considering the Cavitation**  
Cogent Engineering
- Dear** Mohammad Tauviriqrahman,
- Thank you for your patience following your submission to Cogent Engineering. Your manuscript entitled "Study on the Influence of Texturing Combined with Boundary Slip on the Lubrication Considering the Cavitation", has now been reviewed. It has been decided that your manuscript will require a major/minor revision before publication. Reviewer comments are available to be viewed at the bottom of this email.
- The deadline for this revised submission is Mar 18, 2022. If you do not wish to carry out this revision, and would prefer to submit elsewhere, please let us know via emailing [OAEN-peerreview@journals.tandf.co.uk](mailto:OAEN-peerreview@journals.tandf.co.uk).
- However, we encourage you to proceed with revising your manuscript. Please provide an editable word document. To submit your revised manuscript please go to [https://rp.tandfonline.com/submit/flow?submissionId=228654778SP\\_REVISION\\_URL\\_PART2](https://rp.tandfonline.com/submit/flow?submissionId=228654778SP_REVISION_URL_PART2) and log in. You will see an option to revise alongside your submission record.
- Please ensure you include the following elements in your revised submission/Please check the attachment for information on what you will need to include in your revised submission. If you are unsure how to submit your revision, please contact us on [OAEN-peerreview@journals.tandf.co.uk](mailto:OAEN-peerreview@journals.tandf.co.uk) where a member of our Editorial Team will be more than happy to assist you.
- I look forward to receiving your revised manuscript.
- Best wishes,  
D T Pham  
Editor-in-Chief  
Cogent Engineering
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- Reviewer 1: Yes

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Cogent Engineering <em@editorialmanager.com>

Kepada: Mohammad Tauviqirrahman

Kam, 17 Feb jam 06.51

Ref: COGENTENG-2022-0016

228654778

Study on the Influence of Texturing Combined with Boundary Slip on the Lubrication Considering the Cavitation

Cogent Engineering

Dear Mohammad Tauviqirrahman,

Thank you for your patience following your submission to Cogent Engineering. Your manuscript entitled "Study on the Influence of Texturing Combined with Boundary Slip on the Lubrication Considering the Cavitation", has now been reviewed.

It has been decided that your manuscript will require a major/minor revision before publication. Reviewer comments are available to be viewed at the bottom of this email.

The deadline for this revised submission is Mar 18, 2022. If you do not wish to carry out this revision, and would prefer to submit elsewhere, please let us know via emailing [OAEN-peerreview@journals.tandf.co.uk](mailto:OAEN-peerreview@journals.tandf.co.uk).

However, we encourage you to proceed with revising your manuscript. Please provide an editable word document. To submit your revised manuscript please go to [https://rp.tandfonline.com/submission/flow?submissionId=228654778SP\\_REVISION\\_U RL\\_PART2](https://rp.tandfonline.com/submission/flow?submissionId=228654778SP_REVISION_U RL_PART2) and log in. You will see an option to revise alongside your submission record.

Please ensure you include the following elements in your revised submission/Please check the attachment for information on what you will need to include in your revised submission. If you are unsure how to submit your revision, please contact us on [OAEN-peerreview@journals.tandf.co.uk](mailto:OAEN-peerreview@journals.tandf.co.uk) where a member of our Editorial Team will be more than happy to assist you.

I look forward to receiving your revised manuscript.

Best wishes,

D T Pham

Editor-in-Chief

Cogent Engineering

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*more]*

Reviewer 1: Yes



Title, Abstract and Introduction - overall evaluation

Reviewer 1: Sound with minor or moderate revisions

Methodology / Materials and Methods – overall evaluation

Reviewer 1: Sound

Objective / Hypothesis – overall evaluation

Reviewer 1: Sound

Figures and Tables – overall evaluation

Reviewer 1: Sound with minor or moderate revisions

Results / Data Analysis – overall evaluation

Reviewer 1: Sound with minor or moderate revisions

Interpretation / Discussion – overall evaluation

Reviewer 1: Sound with minor or moderate revisions

Conclusions – overall evaluation

Reviewer 1: Sound with minor or moderate revisions

References – overall evaluation

Reviewer 1: Sound with minor or moderate revisions

Compliance with Ethical Standards – overall evaluation

Reviewer 1: Sound

Writing – overall evaluation

Reviewer 1: Sound with minor or moderate revisions

Supplemental Information and Data – overall evaluation

Reviewer 1: Not applicable

Comments to the author

Reviewer 1: In this paper, the effect of dimple depth, as well as the eccentricity ratio were studied. The bearing performance with and without cavitation effect was studied by the CFD model. The topic is interesting. But, there are many issues.

1. Since studying the influence of the cavitation effect and surface texturing in the numerical model is a novelty of this paper, the authors need to provide a sufficient literature review. It seems that it is not necessary to review these literatures about hydrophobic material or coating. The induction should be refined.
2. Please give the expression of D (the bearing dimple groove-minimum film thickness ratio).
3. Figures ranging from 4 to 7 should be improved with high resolution versions.
4. Please Confirm the results of fig. 8 (a), or give a more detailed explanation or verification.

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target="\_blank">Publons</a>?</p><p><i> Don't let your reviewing work go unnoticed! Researchers the world over use Publons to effortlessly track their valuable peer review contributions for any journal. If you opt in, your Publons profile will automatically be updated to show a verified record of this review in full compliance with the journal's review policy. If you don't have a Publons

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more</a>]</i></p>

Reviewer 2: No

Title, Abstract and Introduction - overall evaluation

Reviewer 2: Sound

Methodology / Materials and Methods – overall evaluation

Reviewer 2: Outstanding

Objective / Hypothesis – overall evaluation

Reviewer 2: Outstanding

Figures and Tables – overall evaluation

Reviewer 2: Sound with minor or moderate revisions

Results / Data Analysis – overall evaluation

Reviewer 2: Sound

Interpretation / Discussion – overall evaluation

Reviewer 2: Sound with minor or moderate revisions

Conclusions – overall evaluation

Reviewer 2: Sound with minor or moderate revisions

References – overall evaluation

Reviewer 2: Outstanding

Compliance with Ethical Standards – overall evaluation

Reviewer 2: Outstanding

Writing – overall evaluation

Reviewer 2: Sound with minor or moderate revisions

Supplemental Information and Data – overall evaluation

Reviewer 2: Not applicable

Comments to the author

Reviewer 2: Dear author, your work is very relevant and interesting, as well as being a current topic and, in my opinion, it was well planned and executed. Therefore, below I will list some points that I suggest for your reflection as a way to improve and facilitate the understanding of the document:

1 – The title of the document was a little confusing, it could be simplified.

2 – In the results section, I think that the organization between the text and the figures makes it difficult to visualize and understand the analyses. Firstly, an entire presentation of results is made with some discussion and then all figures related to the evaluated parameter are presented. The best thing would be to intersperse the figures and the result discussions relevant to them in relation to all parameters.

3 - Improves figures 4, 5, 6 and 7. They have a very low definition, which makes it very difficult to understand the results and discussions.

4 – The discussion of the results is good, but together with the presentation of the results, there needs to be a clearer discussion about the influence of texturing and the eccentricity parameters used in the results presented.

5 – Like the previous item, I think that, in the conclusions, the article should have been more specific in relation to the tribological performance of textured hydrophobic bearings.

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Reviewer 4: Yes

Title, Abstract and Introduction - overall evaluation

Reviewer 4: Sound with minor or moderate revisions

Methodology / Materials and Methods – overall evaluation

Reviewer 4: Sound with minor or moderate revisions

Objective / Hypothesis – overall evaluation

Reviewer 4: Sound with minor or moderate revisions

Figures and Tables – overall evaluation

Reviewer 4: Sound

Results / Data Analysis – overall evaluation

Reviewer 4: Sound with minor or moderate revisions

Interpretation / Discussion – overall evaluation

Reviewer 4: Unsound or fundamentally flawed

Conclusions – overall evaluation

Reviewer 4: Sound

References – overall evaluation

Reviewer 4: Sound with minor or moderate revisions

Compliance with Ethical Standards – overall evaluation

Reviewer 4: Sound

Writing – overall evaluation

Reviewer 4: Sound

Supplemental Information and Data – overall evaluation

Reviewer 4: Not applicable

Comments to the author

Reviewer 4: Title:

- The title reads rather bulky and is not fully correct from the language. Please revise and improve.

Abstract:

- The following sentence remains unclear “In this study, the role of cavitation modeling in describing texture cavitation is discussed.”
- The following statement is common sense “It is found that the results of the computational fluid dynamics (CFD) model with cavitation become much lower compared to those without the inclusion of the cavitation model.”
- The following statement remains unclear “slightly deeper dimple” What is the comparison? Deeper with respect to which reference?
- Please revise the abstract.

Keywords:

- The following keyword is rather unspecific and should be improved “Hydrophobic”.

Introduction:

- The following statement is very correct “large number of workers focusing on surface texturing” However the following description of the state of the art remains rather uncomplete. A number of recent review papers as well as recent research contributions are missing. In this context, you may refer to:

- -- Surface texturing in machine elements– a critical discussion for rolling and sliding contacts

- -- Synergetic effects of surface texturing and solid lubricants to tailor friction and wear–a review

- -- Effect of single-and multi-scale surface patterns on the frictional performance of journal bearings–a numerical study

- -- From lab to application-Improved frictional performance of journal bearings induced by single-and multi-scale surface patterns

- Also, Vlădescu et al. published more than just 1 paper in this context. Please check and revise.

- The pioneering work of Etsion et al. on laser surface texturing is completely underrepresented.

- The following statement should be better explained “Slip may have negative and positive effects depending on the slip configuration”

- In introduction of hydrophobic coatings does affect the tribological performance also in a different sense. In this regard, you may refer to the following recently published review article: “.Thermocapillary lubricant migration on textured surfaces-a review of theoretical and experimental insights”

- The novelty is properly derived, which is very important considering the vast amount of literature dealing with surface texturing.

Method:

- How was cavitation modelled?

Results and discussion:

- Please extend on the following statement “The deviation of the value of the peak pressures between the two analyses may be due to the cavitation model used”. The



pressure on the negative side is marginally affected, while there are differences between both models on the positive side. How can one connect that with the used cavitation model? This remains unclear and questionable.

- The following aspect has not been introduced well in section 2 “hydrophobic textured journal bearing”
- The following statement is common sense “the pressure profiles become higher than those without the cavitation model.”
- In Figure 4, the individual curves cannot be easily and well distinguished. Please improve.
- All results are not discussed in the light of the existing state of the art. The results are described but not discussed neither compared with the existing literature. This aspect must be largely improved to make this paper acceptable for publication.

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**3. Revised submission received for Cogent Engineering (Submission ID: 228654778.R1) –  
Senin, 28 Maret 2022**

Revised submission received for Cogent Engineering (Submission ID: 228654778.R1)  
mohammad.tauviqirrahman/Email Masuk

•

rpsupport@tandf.co.uk  
Kepada: [mohammad.tauviqirrahman@ft.undip.ac.id](mailto:mohammad.tauviqirrahman@ft.undip.ac.id)  
Sen, 28 Mar 2022 jam 07.47



Dear Mohammad Tauviqirrahman,

Thank you for submitting your revised manuscript.

Submission ID	<b>228654778</b>
Manuscript Title	<b>Hydrodynamic lubrication analysis of hydrophobic textured journal bearing considering cavitation</b>
Journal	<b>Cogent Engineering</b>

You can check the progress of your submission, and make any requested revisions, on the [Author Portal](#).

Thank you for submitting your work to our journal.  
If you have any queries, please get in touch with [OAEN-peerreview@journals.tandf.co.uk](mailto:OAEN-peerreview@journals.tandf.co.uk).

Kind Regards,  
*Cogent Engineering* Editorial Office

yahoo!mail

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Tulis

← Kembali



Arsipkan



Pindahkan



Hapus



S



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mohammad.t... 42

Email Masuk 42

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Foto

Dokumen

Langganan

Promo

Folder Sembunyikan

+ Folder Baru

Unwanted

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for Cogent Engineering  
(Submission ID:  
228654778.R1)



• rpsupport@tandf.co.uk &lt;rpsuppc



Sen, 28 Mar jam 07.47



Kepada:

mohammad.tauviqirrahman@ft.unc



Taylor &amp; Francis

Taylor &amp; Francis Group

Dear Mohammad Tauviqirrahman,

Thank you for submitting your revised manuscript.

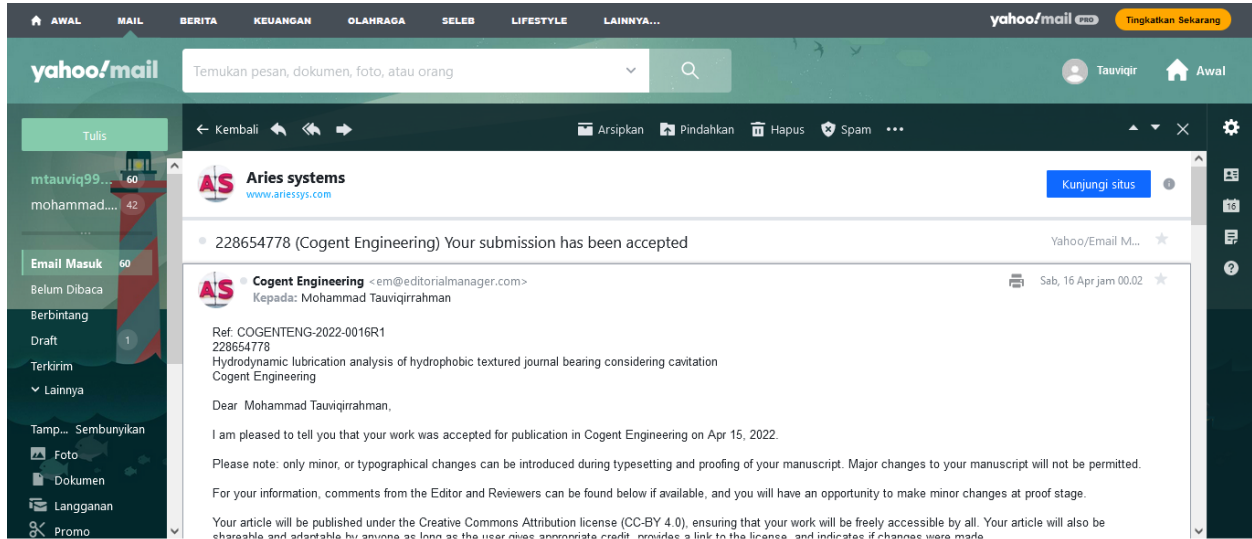
Submission ID **228654778**Manuscript Title **Hydrodynamic lubrication analysis of hydrophobic textured journal bearing considering cavitation**Journal **Cogent Engineering**

You can check the progress of your submission, and make any requested revisions, on the [Author Portal](#).

Thank you for submitting your work to our journal. If you have any queries, please get in touch with [OAEN-peerreview@journals.tandf.co.uk](mailto:OAEN-peerreview@journals.tandf.co.uk).



#### 4. Your submission has been accepted – Sabtu, 16 April 2022



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228654778 (Cogent Engineering) Your submission has been accepted  
Yahoo/Email Masuk

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Cogent Engineering <em@editorialmanager.com>  
Kepada: Mohammad Tauviqirrahman  
Sab, 16 Apr jam 00.02  
Ref: COGENTENG-2022-0016R1  
228654778  
Hydrodynamic lubrication analysis of hydrophobic textured journal bearing considering cavitation  
Cogent Engineering

Dear Mohammad Tauviqirrahman,

I am pleased to tell you that your work was accepted for publication in Cogent Engineering on Apr 15, 2022.

Please note: only minor, or typographical changes can be introduced during typesetting and proofing of your manuscript. Major changes to your manuscript will not be permitted.

For your information, comments from the Editor and Reviewers can be found below if available, and you will have an opportunity to make minor changes at proof stage.

Your article will be published under the Creative Commons Attribution license (CC-BY 4.0), ensuring that your work will be freely accessible by all. Your article will also be shareable and adaptable by anyone as long as the user gives appropriate credit, provides a link to the license, and indicates if changes were made.

Once the version of record (VoR) of your article has been published in Cogent Engineering, please feel free to deposit a copy in your institutional repository.

Thank you for submitting your work to this journal, and we hope that you will consider us for your future submissions.

Best wishes

D T Pham  
Editor-in-Chief  
Cogent Engineering

Comments from the Editors and Reviewers:

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Reviewer 1: Yes

Title, Abstract and Introduction - overall evaluation

Reviewer 1: Sound

Methodology / Materials and Methods – overall evaluation

Reviewer 1: Sound

Objective / Hypothesis – overall evaluation

Reviewer 1: Sound

Figures and Tables – overall evaluation

Reviewer 1: Sound

Results / Data Analysis – overall evaluation

Reviewer 1: Sound

Interpretation / Discussion – overall evaluation

Reviewer 1: Sound

Conclusions – overall evaluation

Reviewer 1: Sound

References – overall evaluation

Reviewer 1: Sound

Compliance with Ethical Standards – overall evaluation

Reviewer 1: Sound



Writing – overall evaluation

Reviewer 1: Sound

Supplemental Information and Data – overall evaluation

Reviewer 1: Sound

Comments to the author

Reviewer 1: The revised version is satisfactory. I think it meets the publication requirements of the journal.

Do you want to get recognition for this review on [Publons](https://publons.com/publisher/24/taylor-francis)?  
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Reviewer 4: Yes

Title, Abstract and Introduction - overall evaluation

Reviewer 4: Sound

Methodology / Materials and Methods – overall evaluation

Reviewer 4: Sound

Objective / Hypothesis – overall evaluation

Reviewer 4: Sound

Figures and Tables – overall evaluation

Reviewer 4: Sound

Results / Data Analysis – overall evaluation

Reviewer 4: Sound

Interpretation / Discussion – overall evaluation

Reviewer 4: Sound

Conclusions – overall evaluation

Reviewer 4: Sound

References – overall evaluation

Reviewer 4: Sound

Compliance with Ethical Standards – overall evaluation

Reviewer 4: Sound

Writing – overall evaluation

Reviewer 4: Sound

Supplemental Information and Data – overall evaluation

Reviewer 4: Sound

Comments to the author

Reviewer 4: Thank you very much for revising the manuscript.

The quality of the manuscript has certainly improved.

In the current stage, I can recommend the acceptance of this article.

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In compliance with data protection regulations, you may request that we remove your personal registration details at any time. (Use the following URL: <https://www.editorialmanager.com/cogenteng/login.asp?a=r>). Please contact the publication office if you have any questions.