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Judul Makalah : A Performance Small Spark Ignition Engine using Producer Gas from Coal Gasification

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Penulis Utama : Fajri Vidian

PENGIRIMAN AWAL LEWAT EMAIL

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Kepada: mail@jsju.org

6 Juni 2021 pukul 09.42

DEAR CHIEF EDITOR

Subject: Submission of Manuscript for JOURNAL OF SOUTHWEST JIAOTONG UNIVERSITY

Please find my submission of manuscript title “PERFORMANCE SMALL SPARK IGNITION ENGINE USING PRODUCER GAS FROM COAL GASIFICATION : OPERATION DUAL FUEL” for possible publication in your journal.

I hereby affirm that the contents of this manuscript are original. Furthermore, it has neither been published elsewhere in any language fully or partly, nor is it under review for publication anywhere.

Also, if our manuscript is accepted, we agree to comply with the formalities as per the policies of journal.

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Best regards

FAJRI VIDIAN

**SELANJUTNYA ADA PEMBERITAHUAN VIA EMAIL HASIL REVIEW DARI
REVIEWER DAN KEPUTUSAN ACCEPTED PAPER**

editor@jsju.org <editor@jsju.org>

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8 Juni 2021 pukul 23.44

Dear Authors

Greetings from Journal of Southwest Jiaotong University,
Many thanks for your interest in publishing with the Journal of Southwest Jiaotong University.

Three independent experts have reviewed the paper. **We are pleased to inform the paper has been accepted for publication subject to minor revisions being made in response to the reviewers' comments given below.**

You need to send the following to the editorial office via editor@jsju.org, if you want to publish in the Journal of Southwest Jiaotong University, Volume 56 (3), 2021:

The article, strictly formatted according to the template recommendations for authors and correct the article on the reviewers'

recommendations, see <http://jsju.org/JournalTemplate.docx>. All revisions should be highlighted in the article in blue. We hope you will do great.

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The article describes a new method/idea (etc.) ..., based on ..., enabling to Using (describe the methods), the authors (describe the obtained results)..... As an example, we illustrate the proposed method/technique... Our method/proposal allows for improvement (any quantitative indicators by XX, X%)... The new method effectiveness evaluation is confirmed by the calculation New research results develop/supplement/improve ... and can be used for....

Abstract:

- describe the relevance of the research briefly
 - specify article objective
 - indicate a leading approach to the study of the problem
 - what the author results?
 - what is the practical and theoretical significance of the results obtained?
2. In the introduction section, it is not enough to state the current works. The authors need to revise this section and state the current work in detail, including the motivation, the main difficulties and highlight the literature gap.
3. Clarify the scope of the article results in current situations.
4. Describe the scientific novelty in conclusion (2-3 paragraphs).
5. The reference needs to be updated. Outdated references to be replaced with sources as of 2015-2021
6. Authors should explain better the academic contribution of the work developed. Highlighting what is innovative / original about the existing literature.

This paper is novel because it seeks to contribute to the current debate in the literature.....The scientific novelty of the article also consists of a conducted large-scale study

describing the author's theoretical and practical prerequisites.....

FORMATTING TIPS:

Deadline for corrections and payment: June 15, 2021.

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All articles published in our journal are open access and freely available online, immediately upon publication.

We thank you for your contribution and support!

Yours sincerely,

翟婉明

Editor in Chief
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BALASAN TERHADAP EMAIL DARI JURNAL

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10 Juni 2021 pukul 05.41

Dear Chief Editor
Journal of Southwest Jiaotong University

Thank You very much for your information, I will revise as soon as possible.

Best Regards
Fajri Vidian

REVISI YANG DILAKUKAN DAN DIKIRIM VIA EMAIL

No	Comments	Responses
1`	<p>to adhere to the following abstract template: The article describes a new method/idea (etc.) ..., based on ..., enabling to Using (describe the methods), the authors (describe the obtained results) As an example, we illustrate the proposed method/technique... Our method/proposal allows for improvement (any quantitative indicators by XX, X%) ... The new method effectiveness evaluation is confirmed by the calculation New research results develop/supplement/improve ... and can be used for.... Abstract: - describe the relevance of the research briefly - specify article objective - indicate a leading approach to the</p>	<p>The Abstract has been corrected, please see in manuscript revision. "This study proposed a dual fuel operation of mixed of gasoline and producer gas from coal gasification on the spark ignition engine. The experiment was carried out on a constant load with variations in speed for single fuel operation of gasoline and dual fuel operation of mixed of gasoline and producer to see the influence of speed on torque, power dan brake mean effective pressure. Power produced was compared to power produced by single fuel of producer gas that was reported in the literature. The result shows an increasing of speed would increase on torque, power and brake mean effective pressure on single fuel operation of gasoline and dual fuel operation of mixed of gasoline and producer. The power on operation dual-fuel of mixed gasoline-producer gas will reduced about 10.9% compared on operation single fuel of</p>

	<p>study of the problem</p> <ul style="list-style-type: none"> - what the author results? - what is the practical and theoretical significance of the results obtained? 	<p>gasoline and The power on operation single fuel of producer gas will reduced about 20% compared on operation single fuel of gasoline. The maximum shaft power produced by dual-fuel operation is 1.49 kW at a load of 5 kg and speed about 3500 rpm”</p>
2.	<p>In the introduction section, it is not enough to state the current works. The authors need to revise this section and state the current work in detail, including the motivation, the main difficulties and highlight the literature gap</p>	<p>The suggestion has been done. Please see in page 2 of manuscript revision</p> <p>“In this study, a spark-ignition engine was tested on single fuel of gasoline and dual fuel operation of mixed of gasoline and producer gas from coal gasification. Tests carried out on variations in engine speed and constant of load to see the torque, power and brake mean effective pressure. The power result is compared to the literature report of the power produced by single fuel operation of producer gas. The motivation of this study is to utilize coal as fuel on spark ignition engine and to get comparison power produced by single fuel of gasoline and dual-fuel of mixed gasoline-producer gas. The experiment is the calculating of torque, shaft power and brake mean effective pressure (BMEP) on small scale spark ignition engine using dual fuel of mixed of gasoline and producer gas from Indonesia low rank coal gasification. The comparison of power on operation single fuel of gasoline, dual fuel of mixed gasoline- producer gas and single fuel of producer gas make it difference to other report the literature”</p>
3.	<p>Clarify the scope of the article results in current situations</p>	<p>it has been clarified in conclusion, please see in page 4 on manuscript revision</p> <p>The result of the experiment shown the operation dual fuel could be save the use gasoline in current situation with power drop is lower to single fuel producer gas operation.</p>
4.	<p>Describe the scientific novelty in conclusion (2-3 paragraphs)</p>	<p>has been described in conclusion, please see in page 4 on manuscript revision</p> <p>The novelty of the experiment is a utilization of producer gas from Indonesia low rank coal gasification for investigation of torque, power and brake mean effective pressure of spark ignition engine and a comparison of power for operation single fuel gasoline, dual fuel of mixed gasoline-producer gas and single fuel of producer gas.</p>

5	<p>The reference needs to be updated. Outdated references to be replaced with sources as of 2015-2021</p>	<p>has been updated (reference 2,3,4,6,7,12,13,19) please see on references in manuscript revision</p> <p>[2] DAI, S., FINKELMANC, R.B., (2018) Coal as a promising source of critical elements: progress and future prospects, <i>International Journal of Coal Geology</i>, 186, pp 155-164.</p> <p>[3] RANNDITSHENI, P., NAIDOO, P., CONNELL, S.H., (2020) A Literature Review on Coal Gasification as Part Transition in SA Thermal Coal Power Generation, <i>Proceedings of the 2nd African International Conference on Industrial Engineering and Operations Management</i>, pp 261-271.</p> <p>[4] BASKORO, A.N., APTARI, O.E, (2020) Biomass Waste and Low Rank Coal Gasification Technology with Carbon Capture System to Optimize A Clean Energy Production as An Alternative Solution to Achieve Energy Security in Indonesia, <i>Indonesian Journal of Energy</i>,3 (2), pp.55 – 67</p> <p>[6] JI, Q., TABASSUM, S., HENA, S., SILVA, C.G., YU, G., ZHANG. Z., 2016 A review on the coal gasification wastewater treatment technologies: past, present and future outlook, <i>Journal of Cleaner Production</i>, 126, pp 38-55.</p> <p>[7] BELONIO, A.T., REGALADO, M.J.C., PHOEBE R. CASTILLO, P.R., 2018 Development of an appropriate rice-based biomass gasifier as source power for farm use, <i>Open Access Library Journal</i>, 5, pp. 1-16.</p> <p>[12] GOBBATOA, P., MASIB, M., BENETTIC, M., (2015) Performance analysis of a producer gas-fuelled heavy-duty SI engine at full-load operation, <i>Energy Procedia</i>, 82. pp. 149 – 155.</p> <p>[13] CHAVES, L.I., SILVA, M.J., SOUZA, S.M.N., SECCO, D., ROSA, H.A., NOGUEIRA, C.E.C., FRIGO, E.P., (2016) Small-scale power generation analysis: Downdraft gasifier coupled to engine generator set, <i>Renewable and Sustainable Energy Reviews</i>, 58, pp. 491–498.</p> <p>[19] GURUMURTHY, V., BABU, U., KUMARARAJA, L., (2020) Performance of SI engine fuelled with producer gas at various spark timings and compression ratios – A Review, <i>AIP Conf. Proc.</i> 2225, 050002-1–050002-5</p>
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6.	Authors should explain better the academic contribution of the work developed. Highlighting what is innovative / original about the existing literature	<p>Has been done in introduction and conclusion, please see in manuscript revision.</p> <p>The comparison of power on operation single fuel of gasoline, dual fuel of mixed gasoline- producer gas and single fuel of producer gas make it difference to other report of the literature.</p> <p>The novelty of the experiment is a utilization producer gas from Indoensia low rank gasification for investigation of torque, power, brake mean effective pressure of spark ignition engine and a comparison of power for operation single fuel gasoline, dual fuel of mixed gasoline- producer gas and single fuel of producer gas.</p>
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PENGIRIMAN REVISI DAN BUKTI PEMBAYARAN DILAKUKAN VIA EMAIL

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 Kepada: editor@jsju.org

15 Juni 2021 pukul 23.32

Dear Editor in Chief
 Journal of Southwest Jiaotong University

I have revised the manuscript (manuscript revision attached) and I have paid the payment of invoice 245-JSJU (the proof of payment attached).

Best regard
 Fajri Vidian

TANGAPAN ATAS PENGIRIMAN REVISI DAN BUKTI PEMBAYARAN

Fajri Vidian unsri fajri.vidian@unsri.ac.id
 Kepada: editor@jsju.org

17 Jun 2021, 21.37

Dear Fajri Vidian

Dear Authors

Many thanks for your support of open access publishing. We received notification from bank about the payment. Editorial Team of Journal of Southwest Jiaotong University confirms that we have received payment.

We thank you for your contribution and support!
We look forward to working with you in preparing the article for publication.

Yours sincerely,
Editorial Office of Journal of Southwest Jiaotong University
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**SELANJUTNYA TIDAK ADA KOMUKASI LAGI HINGGA MAKALAH
DITERBITKAN PADA VOLUME YANG TELAH DI JANJIKAN**