

Wednesday, July 18, 2018

Letter of Acceptance

To Whom It May Concern:

This is to certify that

**AMIR ARIFIN, RIMAN SIPAHUTAR, DIAH KUSUMA PRATIWI,
IRWIN BIZZY, DWI PURBA, GUNAWAN**

have submitted the paper entitled

***EFFECT OF FLY ASH AS REINFORCEMENT ON
MECHANICAL PROPERTIES OF ALUMINUM SCRAP BASED HYBRID COMPOSITE***

The paper has been reviewed and accepted for publication in

Volume 13, Issue 10 (October 2018).

Best regards



Dr. Abdulkareem Sh. Mahdi Al-Obaidi, CEng MIMechE
Executive Editor, Journal of Engineering Science & Technology
<http://jestec.taylors.edu.my/>

REVIEW FORM

Title of paper: EFFECT OF FLY ASH AS REINFORCEMENT ON MECHANICAL PROPERTIES OF ALUMINUM SCRAP BASED HYBRID COMPOSITE

For sections A & B, please tick a number from 0 to 5, where 0 = strongly disagree and 5 = strongly agree.

A. Technical aspects

- 1. The paper is within the scope of the Journal. 0 1 2 3 4 5
- 2. The paper is original. 0 1 2 3 4 5
- 3. The paper is free of technical errors. 0 1 2 3 4 5

B. Communications aspects

- 1. The paper is clearly readable. 0 1 2 3 4 5
- 2. The figures are clear & do clearly convey the intended message. 0 1 2 3 4 5
- 3. The length of the paper is appropriate. 0 1 2 3 4 5

C. Comments to the authors (You may use another sheet of paper.)

- 1. Polish the language. A lot of grammatical errors are found.
- 2. Abstract is not presented in proper order. "Mechanical properties tensile, hardness, impact test, etc." Why does the result of impact test come first?
- 3. No proper problem statement/research gap is found.
- 4. Need more analysis of the results.
- 5. Figure 8 is not clear.
- 6. Present conclusions in one paragraph only.
- 7. Do all the properties comply with application requirement? State in conclusion.

D. Recommendation (Tick one)

- 1. Accepted without modifications.
- 2. Accepted with minor corrections.
- 3. Accepted with major modification.
- 4. Rejected.

E. Comments to the editors (These comments will not be sent to the authors)

Can be considered for publication after minor revision especially language.

REVIEW FORM

Title of paper: EFFECT OF FLY ASH AS REINFORCEMENT ON MECHANICAL PROPERTIES OF ALUMINUM SCRAP BASED HYBRID COMPOSITE

For sections A & B, please tick a number from 0 to 5, where 0 = strongly disagree and 5 = strongly agree.

A. Technical aspects

- | | | | | | | |
|--|----------------------------|---------------------------------------|----------------------------|---------------------------------------|----------------------------|----------------------------|
| 1. The paper is within the scope of the Journal. | <input type="checkbox"/> 0 | <input checked="" type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| 2. The paper is original. | <input type="checkbox"/> 0 | <input checked="" type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| 3. The paper is free of technical errors. | <input type="checkbox"/> 0 | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |

B. Communications aspects

- | | | | | | | |
|--|----------------------------|---------------------------------------|---------------------------------------|---------------------------------------|----------------------------|----------------------------|
| 1. The paper is clearly readable. | <input type="checkbox"/> 0 | <input checked="" type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| 2. The figures are clear & do clearly convey the intended message. | <input type="checkbox"/> 0 | <input type="checkbox"/> 1 | <input type="checkbox"/> 2 | <input checked="" type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |
| 3. The length of the paper is appropriate. | <input type="checkbox"/> 0 | <input type="checkbox"/> 1 | <input checked="" type="checkbox"/> 2 | <input type="checkbox"/> 3 | <input type="checkbox"/> 4 | <input type="checkbox"/> 5 |

C. Comments to the authors (You may use another sheet of paper.)

- The work is good and presented well. However, the following suggestions/comments to be addressed for acceptance.
- 1) In abstract – “In this work the composite was fabricated through stir casting methods, alumina and fly ash utilized as reinforcement” should be as “In this work the composite was fabricated through stir casting methods, alumina and fly ash **are** utilized as reinforcement”
 - 2) Give the values for Hardness and Impact toughness as whole number – **not as 65.37 and 14.227 J** – Instead as 65 and 14. Correct in all the parts of the text.
 - 3) Reframe the sentence in introduction part “Composite is material system that consists of a matrix as base material and reinforcement as reinforcement material [9]”
 - 4) Introduction – “Metal matrix composite (MMC) is solutions to overcome this problem” should be as “Metal matrix composite (MMC) is **one of the** solutions to overcome this problem”
 - 5) Page No 3 – “The other author also reported hardness and tensile strength increase linearly with increasing the weight fraction of Al₂O₃ [10]” – **Mention the name of the authors**
 - 6) Give composition of fly ash and size, shape of the fly ash & alumina used in the work.
 - 7) Page no 5 - by anilkumar et. al. should be as by **Anilkumar et. al.**
 - 8) Page No 6 – The sentence “The existence of fly ash particles in an aluminum matrix is obstacle that will strengthen the movement of the mechanical properties of aluminum composite” – should be as “**The existence of fly ash particles in the aluminum matrix act as an obstacle for the movement of dislocations and which strengthen the aluminum composite.**”

9) Page No 7 – Figure 7 – Is the elongation represented in the graph is with alumina or without alumina? Why both strength and ductility increases simultaneously on addition of fly ash? Explanation is needed.

10) Figure 9 – Give fractographs in higher magnification. It is not microstructure fractography simply mention as fractographs.

D. Recommendation (Tick one)

1. Accepted without modifications.
2. Accepted with minor corrections.
3. Accepted with major modification.
4. Rejected.

E. Comments to the editors (These comments will not be sent to the authors)

The paper can be accepted for publication if the authors address the comments satisfactorily.