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HASIL PENILAIAN SEJAWAT SEBIDANG ATAU *PEER REVIEW*
KARYA ILMIAH : PROSIDING

Judul Karya Ilmiah : Heat transfer analysis in orthopedic ovens for use in home industry
 Jumlah Penulis : 5 Orang (**Eflita Yohana**, M.S.K Tony Suryo Utomo, Rifky Ismail, Khoiri Rozi, and Yosua Wijaya)
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Komponen Yang Dinilai	Nilai Reviewer		Nilai Rata-rata
	Reviewer I	Reviewer II	
a. Kelengkapan unsur isi prosiding (10%)	3,00	3,00	3,00
b. Ruang lingkup dan kedalaman pembahasan (30%)	8,00	8,00	8,00
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	8,00	8,00	8,00
d. Kelengkapan unsur dan kualitas terbitan/prosiding(30%)	9,00	8,00	8,50
Total = (100%)	28,00	27,00	27,50
Nilai Pengusul = (60% x 27,50) = 16,50			

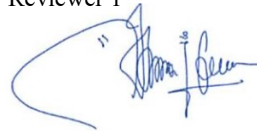
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Reviewer 2



Prof.Dr.rer.nat. Ir. A. P. Bayuseno, M.Sc.
 NIP. 196205201989021001
 Unit Kerja : Departemen T. Mesin FT UNDIP

Reviewer 1



Prof. Dr. Jamari, S.T., M.T.
 NIP. 197403042000121001
 Unit Kerja : Departemen T.Mesin FT UNDIP

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Hasil Penilaian *Peer Review* :

Komponen Yang Dinilai	Nilai Maksimal Prosiding		Nilai Akhir Yang Diperoleh
	Internasional 30	Nasional 	
a. Kelengkapan unsur isi prosiding (10%)	3,00		3,00
b. Ruang lingkup dan kedalaman pembahasan (30%)	9,00		8,00
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	9,00		8,00
d. Kelengkapan unsur dan kualitas terbitan/prosiding(30%)	9,00		9,00
Total = (100%)	30,00		28,00
Nilai Pengusul = (60% x 28,00) = 16,80			

Catatan Penilaian Paper oleh Reviewer :

1. Kesesuaian dan kelengkapan unsur isi paper:

Penulisan artikel telah sesuai dengan ketentuan yang diberikan dalam panduan untuk penulis atau template pada "author guidelines". Substansi artikel sangat sesuai bidang ilmu penulis pertama yaitu bidang perpindahan panas (Teknik Mesin dengan keahlian konversi energi). (skor=3,00).

2. Ruang lingkup dan kedalaman pembahasan:

Artikel sesuai dengan ruang lingkup prosiding yaitu bidang sains dan penerapan sains. Hasil yang ditampilkan detil, baik dari gambar, tabel, maupun grafik yang dimunculkan. Kedalaman analisis cukup baik untuk menjawab persoalan yang diangkat. (skor=8,00).

3. Kecukupan dan kemutakhiran data/informasi dan metodologi:

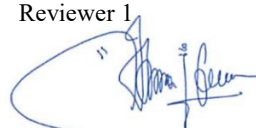
Informasi yang disajikan menunjukkan adanya kebaruan dan memberikan penjelasan lengkap sebagai bahan pembahasan. Artikel tentang analisis perpindahan panas di oven orthopedic untuk industri rumahan merupakan kajian yang baru dan mutakhir. Artikel menggunakan total 13 referensi yang berkaitan dengan isi pembahasan. (skor = 8,00).

4. Kelengkapan unsur dan kualitas terbitan:

Prosiding tergolong dalam Prosiding Internasional Bereputasi, tata tulis dan tata bahasa baik menunjukkan proses review dan kualitas prosiding yang sangat baik (terindeks Scopus, dengan SJR: 0,19 (2021)). (skor = 9,00).

Semarang,

Reviewer 1



Prof. Dr. Jamari, S.T., M.T.

NIP. 197403042000121001

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a. Kelengkapan unsur isi prosiding (10%)	3,00		3,00
b. Ruang lingkup dan kedalaman pembahasan (30%)	9,00		8,00
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d. Kelengkapan unsur dan kualitas terbitan/prosiding(30%)	9,00		8,00
Total = (100%)	30,00		27,00
Nilai Pengusul = (60% x 27,00) = 16,20			

Catatan Penilaian Paper oleh Reviewer :

1. Kesesuaian dan kelengkapan unsur isi paper:

Artikel tentang analisis perpindahan panas, termasuk dalam bidang keahlian di Teknik Mesin yaitu konversi energi. Tata tulis artikel yang disajikan telah sesuai dengan petunjuk penulisan yang ada di template ataupun author guideline untuk AIP Conference Proceedings . (nilai: 3,00).

2. Ruang lingkup dan kedalaman pembahasan:

Topik artikel yang diterbitkan sesuai dengan ruang lingkup jurnal yaitu bidang sains dan penerapan sains. Analisis yang dipaparkan didukung dengan data yang lengkap dan relevan, ditunjukkan dengan adanya gambar, grafik, serta tabel, maupun persamaan yang jelas di dalam artikel untuk mendukung pembahasan yang disampaikan. (nilai: 8,00).

3. Kecukupan dan kemutakhiran data/informasi dan metodologi:

Hasil Turnitin similarity index mendapatkan hasil 4%, hal ini menunjukkan artikel bebas dari plagiasi. 13 pustaka yang disitasi, merupakan jurnal-jurnal dan buku yang bereputasi dan cukup untuk mendukung pembahasan di dalam artikel. (nilai: 8,00).

4. Kelengkapan unsur dan kualitas terbitan:

Artikel terbit pada prosiding internasional terindeks Scopus, SJR: 0,19 (tahun 2021). (nilai: 8,00).

Semarang,

Reviewer 2



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Heat transfer analysis in orthopedic ovens for use in home industry

[Yohana, Eflita](#) ; [Utomo, M.S.K Tony Suryo](#); [Ismail, Rifky](#); [Rozi, Khoiri](#); [Wijaya, Yosua](#)

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^a Department of Mechanical Engineering, Faculty of Engineering, Diponegoro University, Semarang, Indonesia

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The orthopedic oven is one of the tools used in the world of health. Until now, the orthopedic oven needs are still imported from other countries. The orthopedic oven is an oven that is used to heat plastic resins such as polypropylene quickly and evenly. The operation of this oven uses a large electric power and the purchase price is also relatively expensive so usually only used in large orthopedic workshops. This makes meeting the needs of the use of the orthopedic oven is limited so there needs to be an orthopedic oven design with adequate power for the home industry at a low cost. This design analysis using the calculation of heat transfer that occurs in the oven such as internal force convection, conduction, or un-steady conduction to obtain critical wall thickness values that must be used to minimize heat loss that occurs and the time needed to heat polypropylene resin. Based on the analysis of data calculations performed, obtained to reduce the heat loss that occurs need to use a gypsum board ($k=0,132 \text{ W/m}^\circ\text{C}$) with a thickness of 0,28 m, and the time required to heat the polypropylene to reach a temperature 185°C is 20,6 minutes. © 2022 Author(s).

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Volume 2391

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All presented and selected manuscript of ICSAS 2021 will be published in

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- **Deadline for abstract submission : 22 February 2021**
- Announcement of abstract acceptance : 25 February 2021
- **Deadline for paper submission: 1 March 2021**
- Announcement of paper acceptance: 3-11 March 2021 
- **Deadline for earlybird payment: 12 March 2021**
- Deadline for final payment: 19 March 2021
- **Conference: 6 April 2021**

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¹Physics Dept, Mathematics and Natural Science Faculty, University of Jember Jl. Kalimantan III/25 Kampus Tegalboto Jember, Indonesia, 68121²Center for Environmental Remote Sensing, Chiba University, 1-33, Yayoi, Inage, Chiba 263-8522 Japan^{a)}Corresponding author: bowo_ec.fmipa@unej.ac.id^{b)}pratidinaputri@gmail.com^{c)}subekti@unej.ac.id^{d)}agungtnugroho@gmail.com^{e)}katsunoshin.nishi@gmail.com

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