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

Judul karya ilmiah : On the Role of Acoustical Improvement and Surface Morphology of Seashell  
(artikel) Composite Panel for Interior Applications in Buildings

Jumlah Penulis : 4 penulis

Status Pengusul : Erni Setyowati, Gagoek Hardiman, Purwanto, Mochamad Arief Budihardjo

Identitas Jurnal Ilmiah :

- a. Judul Jurnal : Buildings
- b. Nomor ISSN : 2075-5309
- c. Vol.,no.,bulan,tahun : Volume 9, Issue 3, artikel no: 71
- d. Penerbit : MDPI AG, Basel, Switzerland
- e. DOI Artikel : https://doi.org/10.3390/buildings9030071
- f. Alamat web jurnal : https://www.mdpi.com/2075-5309/9/3/71
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b. Ruang lingkup dan kedalaman bahasan :

c. Kecukupan/kemutakhiran data dan metodologi : *Lihat lampiran*

d. Kelengkapan unsur dan kualitas terbitan/jurnal :

e. Indikasi plagiasi :

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Semarang, 28 Maret 2019  
Reviewer 1,



Prof. Dr. Ir. Edi Purwanto, MT  
NIP. 196312311990031002  
Departemen Arsitektur, FT. Undip

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C4

Judul	: On The Role of Acoustical Improvement and Surface Morphology of Seashell Composite Panel for Interior Applications in Buildings
Penulis	: Erni Setyowati, Gagoek Hardiman, Purwanto, Mochamad Arief Budihardjo
Kategori	: Jurnal Internasional Terindeks Scopus

NO.	UNSUR-UNSUR YANG DINILAI	NILAI
1.	<b>Kelengkapan unsur isi artikel</b>	4,00
a.	Sistematika penulisan sesuai dengan panduan	
b.	Ada kesesuaian antara "Title" dengan IMRDC (Introduction, Methods, Result, Discussion, Conclusion).	
c.	Jumlah referensi yang digunakan cukup memadai.	
2.	<b>Ruang lingkup dan kedalaman pembahasan</b>	11,00
a.	Ruang lingkup pembahasan lebih menekankan pada bidang "building material"	
b.	Pembahasan cukup mendalam, jumlah rujukan dari referensi jurnal bermutu yang digunakan cukup memadai. Pembahasan terhadap aspek arsitektural masih belum mencukupi (aspek aksiologi belum nampak secara eksplisit).	
3.	<b>Kecukupan dan kemutakhiran data/informasi dan metodologi</b>	11,00
a.	Kecukupan/kemutakhiran referensi: jumlah pustaka primer 5-10 tahun terakhir terpenuhi (>50%).	
b.	Metodologi penelitian: belum nampak unsur novelty (inovasi dan invesi). Belum ada kajian/komparasi yang memberikan penjelasan bahwa metode penelitian yang digunakan merupakan metode baru atau metode yang dikembangkan (tidak ada "state of the art").	
4.	<b>Kelengkapan unsur dan kualitas terbitan jurnal</b>	12,00
a.	ISSN: sesuai	
b.	Konsistensi penulisan antara "instruction for authors" dengan fakta artikelnya.	
c.	Hasil pengecekan belum diunggah dalam versi online.	
d.	Syarat komposisi "editorial board": memenuhi	
e.	Syarat kontributor penulis artikelnya: memenuhi	
f.	Konsistensi keberkalaan terbit: sesuai	
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<b>Nilai Pengusul (60%)</b>		<b>22,80</b>

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NIP. 196312311990031002

**LEMBAR  
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Makassar, .....28 Maret 2019  
 Reviewer 2,

Prof. Dr. Ir. Muhammad Ramli Rahim, M.Eng  
 NIP. 195311111980031009  
 Guru Besar Prodi Arsitektur, FT. Universitas Hasanuddin

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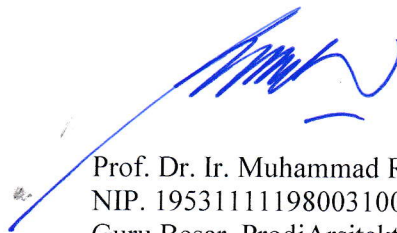
Komponen Yang Dinilai	Nilai Reviewer		
	Reviewer I	Reviewer II	Nilai Rata-rata
a. Kelengkapan unsur isi artikel (10%)	4	3	3,5
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c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	11	11	11
d. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	12	11	11,5
<b>Total = (100%)</b>	<b>38</b>	<b>36</b>	<b>37</b>
<b>Nilai Pengusul</b>	<b>22,80</b>	<b>21,6</b>	<b>22,2</b>

Reviewer I



Prof. Dr. Ir. Edi Purwanto, MT  
 NIP. 196312311990031002  
 Departemen Arsitektur, FT. Undip

Semarang, ..... 28 Maret 2019  
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### Buildings

Volume 9, Issue 3, 2019, Article number 71

## On the role of acoustical improvement and surface morphology of seashell composite panel for interior applications in buildings (Article) (Open Access)

Setyowati, E.<sup>a</sup> , Hardiman, G.<sup>a</sup> , Purwanto<sup>b</sup> , Budihardjo, M.A.<sup>c</sup>

<sup>a</sup>Architecture Department, Engineering Faculty, Diponegoro University, Semarang, 50275, Indonesia

<sup>b</sup>Civil Engineering Department, Engineering Faculty, Diponegoro University, Semarang, 50275, Indonesia

<sup>c</sup>Environmental Engineering Department, Engineering Faculty, Diponegoro University, Semarang, 50275, Indonesia

### Abstract

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This manuscript focuses on the acoustical behaviors and surface morphology of seashell waste filler reinforced polyester (SFRP) coverings *Anadara granosa* Linn, *Perna viridis* Linn, and *Placuna placenta* Linn and applications in buildings. Their acoustical performances were observed using an impedance tube using a technique with two and four microphones based on ASTM E1050-98 and ASTM E2611-09. The improvements of acoustical performance were conducted by a coupled resonator inclusion with addition of a fibrous dacron layer and back cavity. The experimental results showed that the resonators and back cavity on the material structure were able to shift the absorption ability at low frequency. The promising wide broadband frequencies performance occurred when the 15 mm *Placuna placenta* FRP treated with front-tailed cavity without any additional fibrous layer and air gap started from 0.2 at 2.0 kHz. The combination of resonators and fibrous layer on the material structure was able to stabilize the sound transmission loss (STL) in 52-56 dB at a high frequency. On the observation of the simple surface morphology material, it was found that *Placuna placenta* Linn had the highest damping performances due to the smallest pores and the most carbon compound compared to the others. Therefore, this finding is very useful for building applications. © 2019 by the authors.

### Author keywords

Acoustical improvement

Buildings material

Interior applications

SFRP

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- 1 Tronchin, L., Manfren, M., Nastasi, B.  
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doi: 10.1016/j.rser.2018.06.060

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- 2 (2016) *Ellen MacArthur-Foundation, Circularity in the Built Environment: Case Studies a Compilation of Case Studies from the CE100*  
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## On the Role of Acoustical Improvement and Surface Morphology of Seashell Composite Panel for Interior Applications in Buildings

Erni Setyowati <sup>1,\*</sup> , Gagoek Hardiman <sup>1</sup> , Purwanto <sup>2</sup>  and Mochamad Arief Budihardjo <sup>3</sup> <sup>1</sup> Architecture Department, Engineering Faculty, Diponegoro University, Semarang 50275, Indonesia<sup>2</sup> Civil Engineering Department, Engineering Faculty, Diponegoro University, Semarang 50275, Indonesia<sup>3</sup> Environmental Engineering Department, Engineering Faculty, Diponegoro University, Semarang 50275, Indonesia

\* Author to whom correspondence should be addressed.

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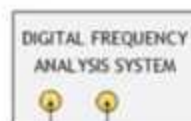
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### Abstract

This manuscript focuses on the acoustical behaviors and surface morphology of seashell waste filler reinforced polyester (SFRP) coverings *Anadara granosa* Linn, *Ferna viridis* Linn, and *Placuna placenta* Linn and applications in buildings. Their acoustical performances were observed using an impedance tube using a technique with two and four microphones based on ASTM E1050-98 and ASTM E2611-09. The improvements of acoustical performance were conducted by a coupled resonator inclusion with addition of a fibrous dacon layer and back cavity. The experimental results showed that the resonators and back cavity on the material structure were able to shift the absorption ability at low frequency. The promising wide broadband frequencies performance occurred when the 15 mm *Placuna placenta* FRP treated with front-tailed cavity without any additional fibrous layer and air gap started from 0.2 at 2.0 kHz. The combination of resonators and fibrous layer on the material structure was able to stabilize the sound transmission loss (STL) in 52–56 dB at a high frequency. On the observation of the simple surface morphology material, it was found that *Placuna placenta* Linn had the highest damping performances due to the smallest pores and the most carbon compound compared to the others. Therefore, this finding is very useful for building applications. View Full-Text

**Keywords:** SFRP; acoustical improvement; buildings material; interior applications

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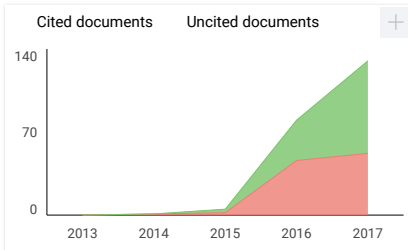
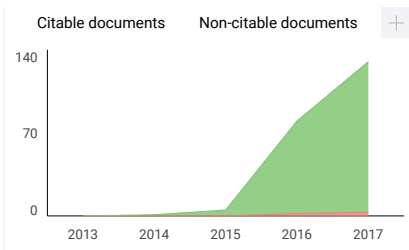
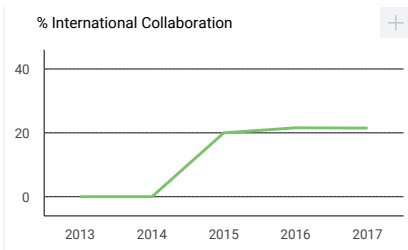
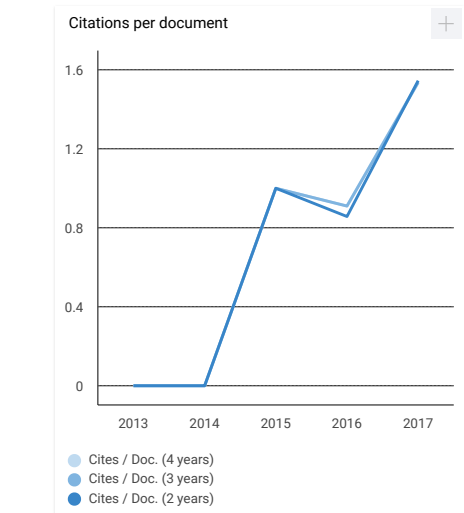
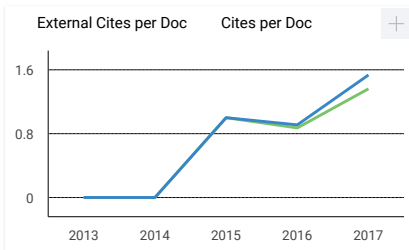
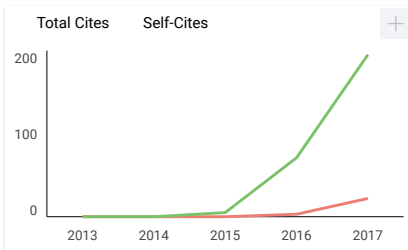
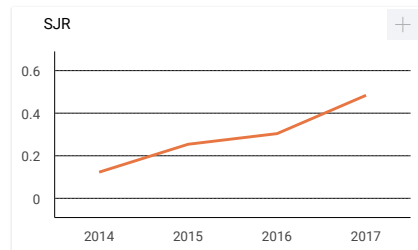
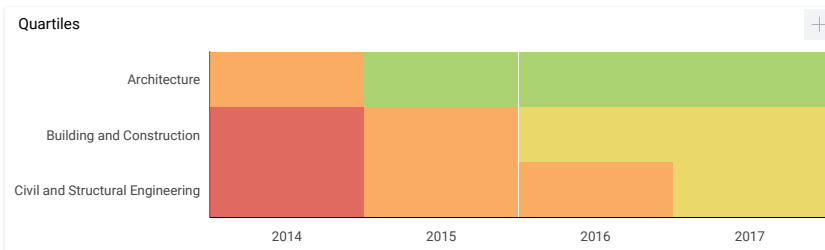
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Received: 6 March 2019

E-mails: [ernisetiyowati@arsitektur.undip.ac.id](mailto:ernisetiyowati@arsitektur.undip.ac.id), [ggkhar@yahoo.de](mailto:ggkhar@yahoo.de), [purwatrend@gmail.com](mailto:purwatrend@gmail.com), [m.budihardjo@ft.undip.ac.id](mailto:m.budihardjo@ft.undip.ac.id)

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erni setyowati &lt;ernisetyowati@arsitektur.undip.ac.id&gt;

**[Buildings] Manuscript ID: buildings-468673 - Assistant Editor Assigned**

2 pesan

**Leta Bo** <leta.bo@mdpi.com>**8 Maret 2019 13.57**

Balas Ke: leta.bo@mdpi.com

Kepada: Erni Setyowati &lt;ernisetyowati@arsitektur.undip.ac.id&gt;

Cc: Leta Bo &lt;leta.bo@mdpi.com&gt;, Gagoek Hardiman &lt;ggkhar@yahoo.de&gt;, Purwanto Purwanto &lt;purwatrend@gmail.com&gt;, Mochamad Arief Budihardjo &lt;m.budihardjo@ft.undip.ac.id&gt;, Buildings Editorial Office &lt;buildings@mdpi.com&gt;

Dear Dr. Setyowati,

Your manuscript has been assigned to Leta Bo for further processing who will act as a point of contact for any questions related to your paper.

Journal: Buildings

Manuscript ID: buildings-468673

Title: On the role of acoustical improvement and surface morphology of seashell composite panel for interior applications in buildings

Authors: Erni Setyowati \*, Gagoek Hardiman , Purwanto Purwanto , Mochamad Arief Budihardjo

Received: 06 March 2019

E-mails: [ernisetyowati@arsitektur.undip.ac.id](mailto:ernisetyowati@arsitektur.undip.ac.id), [ggkhar@yahoo.de](mailto:ggkhar@yahoo.de), [purwatrend@gmail.com](mailto:purwatrend@gmail.com), [m.budihardjo@ft.undip.ac.id](mailto:m.budihardjo@ft.undip.ac.id)

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Leta Bo

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<http://www.mdpi.com/>**erni setyowati** <ernisetyowati@arsitektur.undip.ac.id>**8 Maret 2019 16.58**

Kepada: leta.bo@mdpi.com

Dear MDPI,

Thank you for information. We would like to correspond with her for further progress

Regards,

Erni Setyowati

[Kutipan teks disembunyikan]



erni setyowati &lt;ernisetowati@arsitektur.undip.ac.id&gt;

**[Buildings] Manuscript ID: buildings-468673 - Minor Revisions - Third review report**

2 pesan

**Ms. Leta Bo/MDPI** <leta.bo@mdpi.com>

12 Maret 2019 15.56

Balas Ke: leta.bo@mdpi.com

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Dear Dr. Setyowati,

We have received the third review report which is attached for you.  
Please also make revisions according to the comments.

\*\*\*\*\*

The article shows an innovative research line as well as its application.

The introduction should be anticipated from a more general question dealing with circular economy in the built environment, recycling waste from other sectors to make it suitable for the building industry. I would suggest to include the following two established studies to create the aforementioned proper background:

<https://www.sciencedirect.com/science/article/pii/S136403211830501X>

<https://www.ellenmacarthurfoundation.org/assets/downloads/Built-Env-Co.Project.pdf>

Please remember that the Journal is titled Buildings. So, a thematic introduction is needed and the, you can go to the specific focus of the material to be adopted and why.

Please check English spell.

Please, further enrich Conclusions by reporting the research question, the methods, potential and limitations as well as impact on building sector for the use of your solution.

\*\*\*\*\*

Thank you and we look forward to receiving your revised version soon.

Kind regards,

Ms. Leta Bo  
Assistant Editor  
Email: [leta.bo@mdpi.com](mailto:leta.bo@mdpi.com)  
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On 2019/3/12 9:54, Leta Bo wrote:

Dear Dr. Setyowati,

Thank you for submitting your manuscript:

Manuscript ID: buildings-468673

Type of manuscript: Article

Title: On the role of acoustical improvement and surface morphology of seashell composite panel for interior applications in buildings

Authors: Erni Setyowati \*, Gagoek Hardiman, Purwanto Purwanto, Mochamad Arief Budihardjo

Received: 6 March 2019



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**[Buildings] Manuscript ID: buildings-468673 - Revised Version Received**

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**Doris Cong** <doris.cong@mdpi.com>

17 Maret 2019 13.21

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Dear Dr. Setyowati,

Thank you very much for providing the revised version of your paper:

Manuscript ID: buildings-468673

Type of manuscript: Article

Title: On the role of acoustical improvement and surface morphology of seashell composite panel for interior applications in buildings

Authors: Erni Setyowati \*, Gagoek Hardiman, Purwanto Purwanto, Mochamad Arief Budihardjo

Received: 6 March 2019

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We will continue processing your paper and will keep you informed about the submission status.

Kind regards,

Ms.Doris Cong, M.Sc.

Assistant Editor

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Skype: live:doris.cong\_3

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**[Buildings] Manuscript ID: buildings-468673 - Accepted for Publication**

Leta Bo &lt;leta.bo@mdpi.com&gt;

18 Maret 2019 11.26

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Dear Dr. Setyowati,

We are pleased to inform you that the following paper has been officially accepted for publication:

Manuscript ID: buildings-468673

Type of manuscript: Article

Title: On the role of acoustical improvement and surface morphology of seashell composite panel for interior applications in buildings

Authors: Erni Setyowati \*, Gagoek Hardiman, Purwanto Purwanto, Mochamad Arief Budihardjo

Received: 6 March 2019

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We will now make the final preparations for publication, then return the manuscript to you for your approval.

We also invite you to contribute to Encyclopedia (<https://encyclopedia.pub>), a scholarly platform providing accurate information about the latest research results. You can adapt parts of your paper to provide valuable reference information for others in the field.

Kind regards,

Leta Bo

Assistant Editor

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**[Buildings] Manuscript ID: buildings-468673 - Final Proofreading Before Publication**

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Leta Bo &lt;leta.bo@mdpi.com&gt;

18 Maret 2019 17.03

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Type of manuscript: Article

Title: On the role of acoustical improvement and surface morphology of seashell composite panel for interior applications in buildings

Authors: Erni Setyowati \*, Gagoek Hardiman, Purwanto Purwanto, Mochamad Arief Budihardjo

Received: 6 March 2019

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Kind regards,

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Cc: billing@mdpi.com, website@mdpi.com, buildings@mdpi.com, leta.bo@mdpi.com

Dear Authors,

We are pleased to inform you that your article "On the Role of Acoustical Improvement and Surface Morphology of Seashell Composite Panel for Interior Applications in Buildings" has been published in Buildings and is available online:

Abstract: <https://www.mdpi.com/2075-5309/9/3/71>HTML Version: <https://www.mdpi.com/2075-5309/9/3/71/html>PDF Version: <https://www.mdpi.com/2075-5309/9/3/71/pdf>

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Authored by:

Erni Setyowati; Gagoek Hardiman; Purwanto; Mochamad Arief Budihardjo

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