

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

Judul Jurnal Ilmiah (Artikel) : Effect of the combination of tofu liquid waste and plant media of sago waste on the growth of cayenne (*Capsicum frutescens* L.)

Nama/ Jumlah Penulis : S N Amalia, E Prihastanti, E D Hastuti/ 3 orang

Status Pengusul : penulis ke-3

Identitas Jurnal Ilmiah :

- a. Judul Prosiding : ISNPINSA 2018
- b. Nomor ISSN : ISSN:1742-6588; E-ISSN:1742-6596
- c. Tahun terbit, tempat pelaksanaan : 26 September 2018, Central Java, Indonesia
- d. Penerbit/ Organiser : IOP Conference series Journal of Physics/ Fakultas Sains dan Matematika, Universitas Diponegoro
- e. DOI artikel (jika ada) : doi:10.1088/1742-6596/1217/1/012157
- f. Alamat web prosiding : <https://iopscience.iop.org/article/10.1088/1742-6596/1217/1/012157/pdf>
- g. Terindeks : SCOPUS, Q3, SJR 2018: 0.221

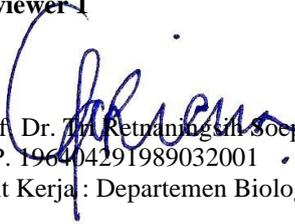
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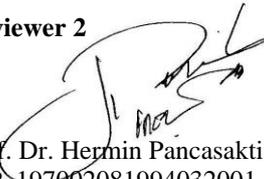
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	Reviewer 1	Reviewer 2	
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b. Ruang lingkup dan kedalaman pembahasan (30%)	8,00	9,00	8,50
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	7,50	8,50	8,00
d. Kelengkapan unsur dan kualitas penerbit (30%)	8,50	8,50	8,50
Total = (100%)	26,80	29,00	27,90
Nilai Pengusul = (40% x 27,90)/2= 5,58			5,58

Semarang, 20 Januari 2020

Reviewer-1


Prof. Dr. Hermin Pancasakti Kusumaningrum, MAppSc
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Unit Kerja : Departemen Biologi - FSM UNDIP

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12 dari 21 referensi upto date. 20 referensi dalam Bahasa Indonesia.

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Paper dimuat dalam IOP Journal of Physics: Conference Series, prosiding dalam ISNPINSA 8, FSM UNDIP 28 September 2018. SCOPUD, Q3, SJR 0,221 (2018). Peserta dari Japan, Philippines, Thailand, Malaysia, Australia, Bangladesh, China, Kazakhtan, Vietnam. Referees dan editors semua berasal dari FSM UNDIP

Semarang, 20 Januari 2020

Reviewer 1



Prof. Dr. Tri Retnaningsih Soeprbowati, MAppSc

NIP. 196404291989032001

Unit Kerja : Departemen Biologi - FSM UNDIP

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e. Ruang lingkup dan kedalaman pembahasan (30%)	9.00		9,00
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g. Kelengkapan unsur dan kualitas terbitan/prosiding (30%)	9.00		8,50
Total = (100%)	30.00		29,00
Nilai Pengusul = 40% x (29,00/2) = 5,80			

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Semarang, 20 Januari 2020

Reviewer 2

Prof. Dr. Hermin Pancasakti Kusumaningrum, SSi, MSi
NIP. 197002081994032001

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2019

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26 September 2018, Central Java, Indonesia

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8th International Seminar on New Paradigm and Innovation on Natural Sciences and Its Application, ISNPINSA 2018; Semarang, Central Java; Indonesia; 26 September 2018 through ; Code 148936

Effect of the combination of tofu liquid waste and plant media of sago waste on the growth of cayenne (*Capsicum frutescens* L.) (Conference Paper) ([Open Access](#))Amalia, S.N. [✉](#), Prihastanti, E., Hastuti, E.D.

Department of Biology, Faculty of Science and Mathematics, Diponegoro University, Jl. Prof. H. Soedharto, S.H., Tembalang, Kota Semarang, 50275, Indonesia

Abstract

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Sago and tofu waste still have high organic content so that it can be used as a planting media. This research is expected to help preserve the environment by reducing waste and using polybags in the cayenne pepper cultivation. The purpose of this study is to determine the effect of the combination of sago and tofu waste on the growth of cayenne. Research begins with taking sago waste and tofu waste, planting, and treatment. This study uses factorial Completely Randomized Design with three replications. The first factor is planting media, consisting of 5 media. The second factor is the tofu waste concentrations. The parameters of this study are plant growth and yield (wet weight and dry weight). The data is then analyzed by ANOVA (Analysis of Variance) test. The results showed that the interaction between planting media and tofu waste had a significant effect on all parameters. The treatment of planting media and black sago with tofu waste of 30% concentration showed the highest seedling growth in plant height, leaf number and area, wet and dry weight of roots and canopy because these media can provide sufficient nutrients for plants. © Published under licence by IOP Publishing Ltd.

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An investigation of a CT noise reduction using a modified of wiener filtering-edge detection

C Anam¹, T Fujibuchi², T Toyoda², N Sato², F Haryanto³, R Widita³, I Arif³ and G Dougherty⁴

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Abstract

The aims of this study were to investigate the noise reduction in a CT image using a modified Wiener filtering-edge detection method. We modified the noise reduction algorithm of a combination of the Wiener filter and edge detection by addition of a dilation stage after edge detection. We then evaluated kernel size of the Wiener filter, threshold values in the edge detection, and size of structuring elements in the dilation process. Images of adult anthropomorphic and self-built wire phantoms were acquired by the new 4-row multislice CT Toshiba Alexion™. The images of the anthropomorphic phantom were used for a visual evaluation, while the images of the wire-phantom were used to obtain the spatial resolution and noise of the images. A Wiener filter-edge detection filter coupled with dilation, potentially reduced more CT noise. We found that the spatial resolution and noise of the filtered images were influenced by the size of the Wiener filter kernel, threshold of edge detection, and size of structuring element.

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Growth and fabrication of 850 nm AlGaAs/GaAs vertical cavity surface emitting laser structure

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Abstract

In this work, we demonstrate the NIP's all in-house development of a vertical cavity surface emitting laser structure. The VCSEL structure grown via MBE consists of an AlAs/AlGaAs distributed Bragg reflector and an AlGaAs/GaAs quantum well designed to issue at the 850 nm region. Reflectance spectroscopy showed that the stop band is centered around the designed wavelength. The

electroluminescence spectra displayed that the maximum light emission corresponded to its design. This is a crucial step in the NIP's development of semiconductor lasers, leading towards future high-speed and highly-tunable VCSEL devices.

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