

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

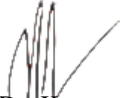
Judul Jurnal Ilmiah (Artikel) : Electrohydrodynamic drying of plant seeds with the shape variation
 Nama/ Jumlah Penulis : 4 Orang
 Status Pengusul : Penulis pertama/ ~~Penulis ke-~~ Penulis Korespondensi **
 Identitas Prosiding : a. Nama Prosiding : Journal of Physics: Conference Series (ISNPINSA 2019)
 b. Nomor ISSN : Online ISSN: 1742-6596, Print ISSN: 1742-6588
 c. Vol, No., Bln Thn : Vol. 1524, No.012014, 2020
 d. Penerbit : IOP Publishing Ltd.
 e. DOI artikel (jika ada) : 10.1088/1742-6596/1524/1/012014
 f. Alamat web prosiding : <https://iopscience.iop.org/journal/1742-6596>
 Alamat Artikel : <https://iopscience.iop.org/article/10.1088/1742-6596/1524/1/012014>
 g. Terindex : Scopus, SJR, Google Scholar, H-index : 85, Impact score : 0.48 (2021-2020)

Kategori Publikasi Jurnal Ilmiah : Prosiding Forum Ilmiah Internasional terindeks
 (beri ✓ pada kategori yang tepat) Prosiding Forum Ilmiah Nasional

Hasil Penilaian *Peer Review* :

Komponen Yang Dinilai	Nilai Reviewer		Nilai Rata-rata
	Reviewer I	Reviewer II	
a. Kelengkapan unsur isi jurnal (10%)	3,00	3	3
b. Ruang lingkup dan kedalaman pembahasan (30%)	8,50	8	8,25
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	8,00	8	8
d. Kelengkapan unsur dan kualitas penerbit (30%)	8,50	8	8,25
Total = (100%)	28,00	27	27,5
Nilai untuk Pengusul : 60% x 27,5 = 16,5			

Reviewer 1



Prof. Dr. Kusworo Adi, S.Si., M.T.
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Semarang, 10 Februari 2023

Reviewer 2



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 Unit Kerja : Fisika/FSM/UNDIP
 Bidang Ilmu: Fisika Material

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Hasil Penilaian *Peer Review* :

Komponen Yang Dinilai	Nilai Maksimal Prosiding		Nilai Akhir Yang Diperoleh
	Internasional <input checked="" type="checkbox"/>	Nasional <input type="checkbox"/>	
a. Kelengkapan unsur isi prosiding (10%)	3		3,00
b. Ruang lingkup dan kedalaman pembahasan (30%)	9		8,50
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	9		8,00
d. Kelengkapan unsur dan kualitas terbitan/prosiding (30%)	9		8,50
Total = (100%)	30		28,00
Nilai Pengusul = 60% x 28,00= 16,80			

Catatan Penilaian artikel oleh Reviewer :

1. Kelengkapan unsur isi prosiding:

Penulisan artikel sudah baik dan mengikuti standard penulisan artikel di prosiding, yaitu Abstrak, Introduction, Method, Result and Discussion, Conclusions, Acknowledgement, and References. Substansi artikel sesuai bidang ilmu pengusul

2. Ruang lingkup dan kedalaman pembahasan:

Lingkup bahasan dari artikel ini adalah bidang fisika. Pembahasan cukup baik yaitu membandingkan antara ciri fisik hasil EHD Pengeringan benih tanaman dengan variasi bentuk. Penelitian ini menggunakan sampel biji Mentimun (*Cucumis sativus*), Long Benih Buncis (*Vigna unguiculata ssp*) dan Benih Kecipir (*Psophocarpus tetragonolobus*). Kedalaman pembahasan baik.


3. Kecukupan dan kemutakhiran data/informasi dan metodologi:

Informasi yang disajikan cukup baru dan hasil yang diperoleh memuat substansi orisinal dengan aspek aplikasi yang penting. Sumber gagasan penulis untuk artikel ini cukup komprehensif. Dari 42 referensi yang dipakai terdapat 4 paper yang lebih dari 10 tahun terakhir (out of date). Metodologinya dan penulisannya cukup terstruktur.

4. Kelengkapan unsur dan kualitas terbitan:

Artikel dimuat di prosiding Journal of Physics: Conference Series (ISNPINSA 2019). Diterbitkan pada Vol. 1524, No.012014, 2020, diterbitkan IOP Publishing Ltd. dan terindeks di Scopus.

Semarang, 10 Februari 2023
 Reviewer 1


 Prof. Dr. Kusworo Adi, S.Si., M.T.
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c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	9		8
d. Kelengkapan unsur dan kualitas terbitan/prosiding (30%)	9		8
Total = (100%)	9		27
Nilai Pengusul = 60% x 27 = 16,2 (Max 30)			

Catatan Penilaian artikel oleh Reviewer :

- Kesesuaian dan kelengkapan unsur isi jurnal:**
Tulisan sudah lengkap yang terdiri dari title, abstract, introduction, method, result and discussion, conclusion, references. Artikel telah sesuai dengan bidang ilmu pengusul/anggota penulis.
- Ruang lingkup dan kedalaman pembahasan:**
Pembahasan artikel terkait kajian elektrodinamik benih menggunakan corona discharge telah dijelaskan dengan baik. Artikel ini juga dilengkapi dengan referensi pada bagian pembahasan untuk menguatkan diskusi.
- Kecukupan dan kemutakhiran data/informasi dan metodologi:**
Metode standar serta referensi yang digunakan cukup baik terkait skema reactor dan setting eksperimen. Pada metode dilengkapi juga foto setting peralatan. Makalah didukung oleh 42 daftar pustaka.
- Kelengkapan unsur dan kualitas terbitan:**
Prosiding untuk artikel yang diterbitkan telah terindex dan memiliki kualitas internasional. Kelengkapan dan kualitas cukup baik terdapat gambar untuk memudahkan penjelasan

Semarang, 10 Februari 2023

Reviewer 2



Prof. Dr. Agus Subagio, S.Si., M.Si.

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Electrohydrodynamic drying of plant seeds with the shape variation

[Sumariyah S.^a](#) ; [Khuriati A.^a](#); [Fachriyah E.^b](#); [Pratiwi S.H.^a](#) [Save all to author list](#)^a Physics Department, Mathematics and Sciences Faculty, Diponegoro University, Indonesia^b Chemistry Department, Mathematics and Sciences Faculty, Diponegoro University, Indonesia169th percentile
Citation in Scopus0.88
FWCI 11
Views count [View all metrics](#) [Full text options](#) [Export](#) **Abstract**[Indexed keywords](#)[SciVal Topics](#)[Metrics](#)[Funding details](#)**Abstract**

Electrohydrodynamic (EHD) drying is a dryer that does not require moving parts and is environmentally friendly and it results more durable. The purpose of it study is to compare among the physical characteristics of the results of the EHD Drying of the crop seeds with variations in shape . This research used samples of Cucumber (*Cucumis sativus*) seeds , Long Bean (*Vigna Unguiculata* ssp) Seeds and Winged bean (*Psophocarpus Tetragonolobus*) Seeds . It is in variations in diameter of seeds form. EHD flow is yield corona discharge plasma. It is using 10 pairs x 10 pairs of electrodes wich have configuration pin-three concentris ring. It is generated with applied high voltage of 18 kV, the gap electrode 4 mm and drying time 0-35 minutes with a 5 minute time interval. According to the results obtained, the graph of drying rate and the energy efficiency of all seeds sample is the

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Sumariyah, S. , Khuriati, A. , Pratiwi, S.H. (2020) *Journal of Physics: Conference Series*Electrohydrodynamic (edh) drying of ginger slices (*zingiber officinale*)Sumariyah , Khuriati, A. , Fachriyah, E. (2018) *Journal of Physics: Conference Series*

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2020

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