

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

Judul Jurnal Ilmiah (Artikel) : Electrohydrodynamic (edh) drying of ginger slices (zingiber officinale)
 Nama/ Jumlah Penulis : 3 Orang
 Status Pengusul : Penulis pertama/ Penulis ke- / Penulis Korespondensi **
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 c. Vol, No., Bln Thn : Vol. 1025, No.012015, 2018
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 e. DOI artikel (jika ada) : 10.1088/1742-6596/1025/1/012015
 f. Alamat web prosiding : <https://iopscience.iop.org/journal/1742-6596>
 Alamat Artikel : <https://iopscience.iop.org/article/10.1088/1742-6596/1025/1/012015>
 g. Terindex : Scopus, SJR, Google Scholar, H-index : 85, Impact score : 0.48 (2021-2020)

Kategori Publikasi Jurnal Ilmiah : ☒ Prosiding Forum Ilmiah Internasional terindeks
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d. Kelengkapan unsur dan kualitas penerbit (30%)	8,50	8	8,25
Total = (100%)	28,00	28	28
Nilai untuk Pengusul : 60% x 28 = 16,8			

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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 :

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 Penulisan artikel sudah baik dan mengikuti standard penulisan artikel di prosiding, yaitu Abstrak, Introduction, Method, Result and Discussion, Conclusions, and References. Tidak ada Acknowledgement. Substansi artikel sesuai bidang ilmu pengusul
- Ruang lingkup dan kedalaman pembahasan:**
 Lingkup bahasan dari artikel ini adalah bidang fisika. Pembahasan cukup baik yaitu Angin ionik menghasilkan output sistem melalui elektroda konsentris multi-cincin yang selanjutnya akan mengeringkan sampel. Irisan jahe berbentuk lingkaran sebagai a sampel dengan diameter 26 mm dengan ketebalan 2 mm. Kedalaman pembahasan baik.
- Kecukupan dan kemutakhiran data/informasi dan metodologi:**
 Informasi yang disajikan cukup baru dan hasil yang diperoleh memuat substansi orisinil dengan aspek aplikasi yang penting. Sumber gagasan penulis untuk artikel ini kurang komprehensif. Dari 11 referensi yang dipakai terdapat 5 paper yang lebih dari 10 tahun terakhir (out of date). Metodologinya dan penulisannya kurang terstruktur.
- Kelengkapan unsur dan kualitas terbitan:**
 Artikel dimuat di prosiding IOP Conf. Series: Journal of Physics: Conf. Series (ISNPINSA-7). Diterbitkan pada Vol. 1025, No.012015, 2018, diterbitkan IOP Publishing Ltd. dan terindeks Scopus

Semarang, 10 Februari 2023

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a. Kelengkapan unsur isi jurnal (10%)	3		3
b. Ruang lingkup dan kedalaman pembahasan (30%)	9		9
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	9		8
d. Kelengkapan unsur dan kualitas terbitan/prosiding (30%)	9		8
Total = (100%)	30		28
Nilai Pengusul = 60% x 28 = 16,8 (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. Kebaruan juga telah dijelaskan. Artikel telah sesuai dengan bidang ilmu pengusul/anggota penulis.
- Ruang lingkup dan kedalaman pembahasan:**
Pembahasan artikel terkait kajian analisis pengeringan ginger slices (zingiber officinale) secara hidrodinamik memanfaatkan angin ion dari lucutan corona untuk mendapatkan nilai efisiensi dari parameter yang diujikan. 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 setting eksperimen, perhitungan laju pengeringan, serta perhitungan nilai energi. Makalah didukung oleh 11 daftar Pustaka.
- Kelengkapan unsur dan kualitas terbitan:**
Prosiding untuk artikel yang diterbitkan telah terindex dan memiliki kualitas internasional. Kelengkapan dan kualitas cukup baik terdapat tabel data dan gambar untuk memudahkan penjelasan.

Semarang, 10 Februari 2023
 Reviewer 2



Prof. Dr. Agus Subagio, S.Si., M.Si.
 NIP. 19710813 1995121001
 Unit Kerja : Fisika/FSM/UNDIP
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Electrohydrodynamic (edh) drying of ginger slices (zingiber officinale)

[Sumariyah](#) ; [Khuriati, Ainie](#); [Fachriyah, Enny](#)

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^a Physics Department, Mathematics and Sciences Faculty, Diponegoro University, Indonesia
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[Abstract](#)[Author keywords](#)[Indexed keywords](#)[SciVal Topics](#)[Metrics](#)[Funding details](#)**Abstract**

Electrohydrodynamic (EHD) flow or ion wind of corona discharges has been generated utilizing pin-multi ring concentred electrodes. The pin was made of stainless steel with a tip diameter of 0.018 mm. The multi-ring constructed electrodes by a metal material connected to each other and each ring has a diameter of 24 mm, 16 mm and 8 mm in the same width and thickness is 4 mm and 1 mm. EHD was generated by using a DC high voltage of 5 kV. Pin as an active electrode of corona discharge and multi-ring concentric electrodes as a collector and passive electrodes. The ion wind or EHD flow is produced through changes in voltage and distance between electrodes. The ionic wind generated system outputs through multi-ring concentric electrodes which will further dry the sample. A circle ginger slices as a sample with a diameter of 26 mm with a thickness of 2 mm. The drying is done at the distance between the fixed electrodes of 4 mm and the varied voltages are 1.2 kV, 1.4 kV, and 1.6 kV. The sample

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Dehydration mechanisms in electrohydrodynamic drying of plant-based foods

 Iranshahi, K. , Onwude, D.I. , Martynenko, A. (2022) *Food and Bioprocess Processing*

Ion wind drying with input power variation of the potato slices

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Ion wind drying with input power variation of the potato slices

 Sumariyah, S. , Khuriati, A. , Pratiwi, S.H. (2020) *Journal of Physics: Conference Series*

Ion wind from yield corona discharge and its application to drying of Turmeric slices (Curcuma domestica Val)

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drying time varied 30 minutes, 60 minutes, 90 minutes, 120 minutes and 150 minutes. The result of drying the sample at a fixed voltage is obtained moisture of ginger slices decreased with increased drying time. © Published under licence by IOP Publishing Ltd.

Author keywords

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