



Home (https://ejournals.itda.ac.id/index.php/angkasa/index) / Vol 14, No 2 (2022) (https://ejournals.itda.ac.id/index.php/angkasa/index)

Angkasa: Jurnal Ilmiah Bidang Teknologi

Angkasa Scientific Journal of Technology published by Adisutjipto Institute of Aerospace Technology starting with Volume 1 Number 1 in 2009 with the printed ISSN number 2085-9503 (http://u.lipi.go.id/1332071607) and published on line with ISSN 2581-1355 (http://u.lipi.go.id/1499152439) using Open Journal System (OJS). Angkasa has been indexed in the Science and Technology Index (SINTA (https://sinta3.kemdikbud.go.id/journals/profile/3463)), Digital Reference Garba (GARUDA (https://garuda.kemdikbud.go.id/journal/view/13010)), Bielefeld University Library (BASE (https://www.base-search.net/Search/Results?type=all&lookfor=Angkasa%3A+Jurnal+Ilmiah+Bidang+Teknologi&ling=1&oaboot=1&name=&thes=&refid=dcren&newsearch=1)), NELITI (https://www.neliti.com/journals/angkasa), National Library (One Search), and Google Scholar with h-index : (https://scholar.google.co.id/citations?user=MXPQ3uoAAAAJ&hl=en)_11.

Indexed:



(https://onesearch.id/Search/Results?filter%5b%5d=repold:IOS6593)



(https://scholar.google.co.id/citations?user=MXPQ3uoAAAAJ&hl=en)



(https://www.base-search.net/Search/Results?

type=all&lookfor=Angkasa%3A+Jurnal+Ilmiah+Bidang+Teknologi&ling=1&oaboot=1&name=&thes=&refid=dcren&newsearch=1)



(https://portal.issn.org/resource/ISSN/2581-1355)



(https://garuda.kemdikbud.go.id/journal/view/13010)



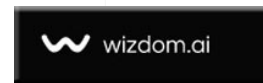
(https://www.scilit.net/journ

Download



n/document/d/1BGDeUu41Jg...
ng Tool
(https://www.worldcat.org/s

q=Angkasa%3A+Jurnal+Ilmiah+Bidang+Teknologi&q=owc_search



ey.com/download-...
new/).
ed By
(https://www.wizdom.ai/journal/angkasa_jurnal_ilmiah_bidang_te
9503).



(https://www.turnitin.com/) Member of



(https://search.crossref.org/)

Authors should submit only papers that have been carefully proofread and polished. The article received is an original article and has never been published in any journal. Authors must refer to Angkasa Template for writing format and style (Click (https://docs.google.com/document/d/1BGDeUu41JqV37ut2M8H5YE7cwLq46Lik/edit)).

Announcements

(https://ejournals.itda.ac.id/index.php/angkasa/announcement)

Sinta Accredited

Angkasa Scientific Journal of Technology has been accredited in accordance with Decree number 148/M/KPT/2020 with S4 for Volume 9 Number 2 Year 2019 - Volume 14 Number 1 Year 2024

Posted: 2020-10-21

More...

(https://ejournals.itda.ac.id/index.php/angkasa/announcement/view/6)

Contact Us

(/index.php/angkasa/pages/view/kontak)

Editorial Team

(/index.php/angkasa/pages/view/editor)

Reviewer

(/index.php/angkasa/pages/view/reviewer)

E-ISSN (http://u.lipi.go.id/1499152439)

P-ISSN (http://u.lipi.go.id/1332071607)

Author Fees (/index.php/angkasa/pages/view/fe

Review Policy

(/index.php/angkasa/pages/view/Policy)

Kinerja mesin pengering dan pengaruh kipas terhadap lamanya waktu pengeringan Jamur Kuping

Doddy Purwadianto

Department of Mechanical Engineering, Sanata Dharma University, Indonesia

Article Info

Article history:

Received May 24, 2022

Accepted June 6, 2022

Published November 18, 2022

Keywords:

Pengeringan
Jamur Kuping
Kinerja
Kompresi uap
COP

ABSTRAK

Proses pengeringan jamur kuping masih memiliki persoalan terutama di musim hujan. Diperlukan inovasi baru terhadap mesin pengering jamur kuping untuk menggantikan peranan matahari. Penelitian ini selain bertujuan untuk mendapatkan inovasi baru mesin pengering jamur kuping, juga untuk (1) mengetahui besarnya kinerja atau COP mesin pengering jamur kuping dan (2) mengetahui pengaruh adanya kipas di ruang pengering terhadap lamanya waktu pengeringan jamur kuping. Penelitian dilakukan secara eksperimen, dengan mempergunakan massa awal jamur kuping basah sebanyak 12 kg. Variasi penelitian dilakukan terhadap ada dan tidak adanya kipas di dalam ruang pengering. Mesin pengering dibuat dengan melibatkan mesin yang bekerja dengan siklus kompresi-uap. Total energi listrik yang diperlukan sebesar 806 watt. Selain diperolehnya teknologi tepat guna berupa mesin pengering jamur kuping, penelitian ini memberikan hasil: (1) mesin pengering memiliki COP sebesar 12,21 (2) bila ada satu kipas di dalam ruang pengering, waktu yang dibutuhkan untuk mengeringkan jamur kuping selama 715 menit (11 jam 55 menit), dan bila tidak ada kipas, selama 955 menit (15 jam 55 menit).



Corresponding Author:

Doddy Purwadianto,

Department of Mechanical Engineering, Sanata Dharma University,

Kampus III, Paingan, Maguwoharjo, Depok, Sleman, Yogyakarta.

Email: purwadodi@gmail.com

1. PENGANTAR

Berdasarkan data dari *United States Department of Agriculture*, jamur kuping memiliki beberapa kandungan vitamin dan mineral. Macam vitamin yang terkandung dalam jamur kuping antara lain, vitamin B₁, B₂, B₃, B₆, B₁₂, B₉ atau asam folat, dan vitamin C, sedangkan mineral yang terkandung dalam jamur kuping antara lain seperti kalsium, zat besi, magnesium, fosfor, kalium, sodium, dan *zinc* [1]. Jamur kuping merupakan bahan makanan yang dapat diolah menjadi berbagai masakan yang menyehatkan. Jamur kuping mempunyai banyak manfaat untuk kesehatan, seperti yang diungkapkan oleh Mutia Isni Rahayu, untuk (a) melancarkan pencernaan (b) meringankan gejala wasir (c) menurunkan berat badan (d) mencegah anemia (d) melancarkan sirkulasi darah (e) konsumsi penderita diabetes (f) menurunkan kadar kolesterol dan menurunkan risiko penyakit kardiovaskular [1].

Salah satu tujuan utama proses pengeringan adalah untuk mengawetkan bahan makanan, demikian juga tujuan pengeringan untuk jamur kuping. Jamur kuping akan rusak, jika jamur kuping tidak dikeringkan. Kadar air di dalam jamur kuping sangat tinggi, sekitar 89,1%. Tingginya kadar-air ini memungkinkan terjadinya reaksi-reaksi kimia dan aktivitas mikroorganisme sehingga mudah mengalami kerusakan. Tujuan pengeringan jamur, selain untuk mengawetkan jamur, mempertahankan mutu jamur, juga untuk menaikkan harga jamur. Dengan melalui proses pengeringan nilai jual jamur meningkat beberapa kali.

Proses pengeringan jamur kuping di masyarakat petani jamur kuping pada musim hujan masih merupakan masalah. Selama ini, pengeringan jamur kuping dilakukan secara konvensional dengan



[Home \(https://ejournals.itda.ac.id/index.php/angkasa/index/\)](https://ejournals.itda.ac.id/index.php/angkasa/index/) / [Archives](#)

[\(https://ejournals.itda.ac.id/index.php/angkasa/issue/archive/\)](https://ejournals.itda.ac.id/index.php/angkasa/issue/archive/) / [Vol 14, No 2 \(2022\)](#)

<https://ejournals.itda.ac.id/index.php/angkasa/issue/view/90>

Vol 14, No 2 (2022)

November

DOI: <http://dx.doi.org/10.28989/angkasa.v14i2> (<http://dx.doi.org/10.28989/angkasa.v14i2>)

Table of Contents

Articles

[Identifikasi kecacatan produk menggunakan Lean Six Sigma melalui pendekatan konsep DMAIC \(https://ejournals.itda.ac.id/index.php/angkasa/article/view/1213\)](https://ejournals.itda.ac.id/index.php/angkasa/article/view/1213)

Muh Yazid Gandi(1*), Asep Erik Nugraha(2), Apid Hapid Maksum(3), Billy Nugraha(4)

Affiliation :

- 1.
2. Universitas Singaperbangsa Karawang
3. Universitas Singaperbangsa Karawang
4. Akademi Komunitas Presiden

(*) Corresponding Author

[10.28989/angkasa.v14i2.1213 \(http://dx.doi.org/10.28989/angkasa.v14i2.1213\)](https://dx.doi.org/10.28989/angkasa.v14i2.1213), Abstract

view : 179 times,

page :

Citations (<https://badge.dimensions.ai/details/doi/10.28989/angkasa.v14i2.1213>
domain=https://ejournals.itda.ac.id)

[Teknologi Augmented Reality untuk instalasi kelistrikan gedung \(https://ejournals.itda.ac.id/index.php/angkasa/article/view/1220\)](https://ejournals.itda.ac.id/index.php/angkasa/article/view/1220)

Ari Sugiharto(1), Ikrima Alfi(2*), Suwirno Suwirno(3)

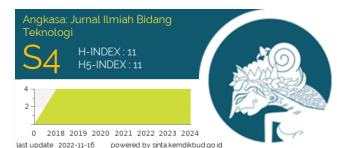
Affiliation :

1. Universitas Teknologi Yogyakarta
2. Universitas Teknologi Yogyakarta
3. Universitas Teknologi Yogyakarta

(*) Corresponding Author

[10.28989/angkasa.v14i2.1220 \(http://dx.doi.org/10.28989/angkasa.v14i2.1220\)](https://dx.doi.org/10.28989/angkasa.v14i2.1220), Abstract

view : 69 times,



<https://sinta.kemdikbud.go.id/journals/id=3463>

User

Username

Password

Remember me



<https://docs.google.com/document/d/1E>

Referencing Tool



<https://www.mendeley.com/download-desktop-new/>

Checked By




<https://www.turnitin.com/>

Member of




<https://search.crossref.org/>

page :

 0 (https://badge.dimensions.ai/details/doi/10.28989/angkasa.v14i2.1220?domain=https://ejournals.itda.ac.id)



Endurance estimation in hovering flight based on battery power requested on quadcopter UAV (<https://ejournals.itda.ac.id/index.php/angkasa/article/view/1226>).

 Richard Octonius(1), Neno Ruseno(2*)


Affiliation :

1. International University Liaison Indonesia
2. International University Liaison Indonesia

(*) Corresponding Author

 [10.28989/angkasa.v14i2.1226](https://dx.doi.org/10.28989/angkasa.v14i2.1226) (<http://dx.doi.org/10.28989/angkasa.v14i2.1226>),  Abstract view : 32 times,

page :

 0 (https://badge.dimensions.ai/details/doi/10.28989/angkasa.v14i2.1226?domain=https://ejournals.itda.ac.id)

Kinerja mesin pengering dan pengaruh kipas terhadap lamanya waktu pengeringan Jamur Kuping (<https://ejournals.itda.ac.id/index.php/angkasa/article/view/1252>)

 Doddy Purwadianto(1*)


Affiliation :

1. Universitas Sanata Dharma Yogyakarta


(*) Corresponding Author

 [10.28989/angkasa.v14i2.1252](https://dx.doi.org/10.28989/angkasa.v14i2.1252) (<http://dx.doi.org/10.28989/angkasa.v14i2.1252>),  Abstract view : 44 times,

page :

 0 (https://badge.dimensions.ai/details/doi/10.28989/angkasa.v14i2.1252?domain=https://ejournals.itda.ac.id)



Pesawat udara kecil tanpa awak (small drone) untuk pengiriman barang (<https://ejournals.itda.ac.id/index.php/angkasa/article/view/1305>).

 Febria Roza(1*), Imam Muthohar(2), Sigit Priyanto(3)

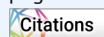
Affiliation :

1. Universitas Gadjah Mada
2. Universitas Gadjah Mada
3. Universitas Gadjah Mada


(*) Corresponding Author

 [10.28989/angkasa.v14i2.1305](https://dx.doi.org/10.28989/angkasa.v14i2.1305) (<http://dx.doi.org/10.28989/angkasa.v14i2.1305>),  Abstract view : 76 times,

page :

 0 (https://badge.dimensions.ai/details/doi/10.28989/angkasa.v14i2.1305?domain=https://ejournals.itda.ac.id)

Analisis kincir air undershot untuk kebutuhan irigasi di daerah Patongloan (<https://ejournals.itda.ac.id/index.php/angkasa/article/view/1323>).

 Atus Buku(1*), Petrus Peleng Roreng(2), Herby Calvin Pascal Tiyow(3)


Affiliation :

1. Universitas Kristen Indonesia Paulus
2. Universitas Kristen Indonesia Paulus
3. Universitas Kristen Indonesia Paulus


(*) Corresponding Author

 [10.28989/angkasa.v14i2.1323](https://dx.doi.org/10.28989/angkasa.v14i2.1323) (<http://dx.doi.org/10.28989/angkasa.v14i2.1323>),  Abstract view : 59 times,

page :

 0 (https://badge.dimensions.ai/details/doi/10.28989/angkasa.v14i2.1323?domain=https://ejournals.itda.ac.id)

Numerical study of pressure drops and flow characteristic in high temperature air-water stratified flow using the AIAD model (<https://ejournals.itda.ac.id/index.php/angkasa/article/view/1348>).

 Eli Kumolosari(1*), Bahrul Jalaali(2)

Affiliation :

1. Adisutjipto Institute of Aerospace Technology

[Contact Us](#)

(<https://index.php/angkasa/pages/view/>

[Editorial Team](#)

(<https://index.php/angkasa/pages/view/>

[Reviewer](#)

(<https://index.php/angkasa/pages/view/>

[E-ISSN](#) (<http://u.lipi.go.id/14>

[P-ISSN](#) (<http://u.lipi.go.id/13>

[Author Fees](#) (<https://index.php/angkasa/pa>

[Review Policy](#)

(<https://index.php/angkasa/pages/vie>

[Open Access Statemen](#)

(<https://index.php/angkasa/pages/vie>

(<https://index.php/compiler/pages/view/o>

[Focus and Scope](#)

(<https://index.php/angkasa/pages/view/>

[Author Guidelines](#)

(<https://index.php/angkasa/pages/view/>

[Screening Plagiarism](#)

(<https://index.php/angkasa/pages/view/>

[Announcements](#)

(<https://index.php/angkasa/announce>

[Abstracting and Indexi](#)

(<https://index.php/angkasa/pages/view/i>

[Publication Ethics](#)

(<https://index.php/angkasa/pages/view/>

[Copyright Notice](#)

(<https://index.php/angkasa/pages/vie>

[Crossmark Policy](#)

(<https://index.php/angkasa/pages/vie>

Order the print version?



(<https://api.whatsapp.com/send?phone=6285290735355>)

Information

■ [For Readers](#)

(<https://ejournals.itda.ac.id/index.php/a>

■ [For Authors](#)

(<https://ejournals.itda.ac.id/index.php/a>

■ [For Librarians](#)

(<https://ejournals.itda.ac.id/index.php/a>


2. Adisutjipto Institute of Aerospace Technology

(*) Corresponding Author


 [10.28989/angkasa.v14i2.1348](https://dx.doi.org/10.28989/angkasa.v14i2.1348) (<http://dx.doi.org/10.28989/angkasa.v14i2.1348>),  Abstract

view : 25 times,

page :

 Citations 0 ([https://badge.dimensions.ai/details/doi/10.28989/angkasa.v14i2.1348?](https://badge.dimensions.ai/details/doi/10.28989/angkasa.v14i2.1348?domain=https://ejournals.itda.ac.id)
domain=https://ejournals.itda.ac.id)

Characterization of ion-exchanged zeolites with lithium for Pressure Swing Adsorption (PSA) applications (<https://ejournals.itda.ac.id/index.php/angkasa/article/view/1349>)

 Nidya Jullanar Salman(1*), Dhimas Satria(2), Damar Abi Ramadani(3), Teguh Kurniawan(4)

Affiliation :


1. Mechanical Engineering Department, Universitas Sultan Ageng Tirtayasa
2. Mechanical Engineering Department, Universitas Sultan Ageng Tirtayasa
3. Mechanical Engineering Department, Universitas Sultan Ageng Tirtayasa
4. Mechanical Engineering Department, Universitas Sultan Ageng Tirtayasa

(*) Corresponding Author


 [10.28989/angkasa.v14i2.1349](https://dx.doi.org/10.28989/angkasa.v14i2.1349) (<http://dx.doi.org/10.28989/angkasa.v14i2.1349>),  Abstract

view : 25 times,

page :

 Citations 0 ([https://badge.dimensions.ai/details/doi/10.28989/angkasa.v14i2.1349?](https://badge.dimensions.ai/details/doi/10.28989/angkasa.v14i2.1349?domain=https://ejournals.itda.ac.id)
domain=https://ejournals.itda.ac.id)

Pengembangan Sistem Informasi Pemantauan Gizi Remaja Berbasis Antropometri (SIPSAE) berbasis mobile dan web bagi remaja SMP (<https://ejournals.itda.ac.id/index.php/angkasa/article/view/1379>)

 Ery Setiyawan Jullev Atmadji(1*), Zora Olivia(2), Nita Maria Rosiana(3), Arinda Lironika Suryana(4)

Affiliation :


1. Department of Health , Politeknik Negeri Jember
2. Department of Health , Politeknik Negeri Jember
3. Department of Health , Politeknik Negeri Jember
4. Department of Health , Politeknik Negeri Jember

(*) Corresponding Author


 [10.28989/angkasa.v14i2.1379](https://dx.doi.org/10.28989/angkasa.v14i2.1379) (<http://dx.doi.org/10.28989/angkasa.v14i2.1379>),  Abstract

view : 31 times,

page :

 Citations 0 ([https://badge.dimensions.ai/details/doi/10.28989/angkasa.v14i2.1379?](https://badge.dimensions.ai/details/doi/10.28989/angkasa.v14i2.1379?domain=https://ejournals.itda.ac.id)
domain=https://ejournals.itda.ac.id)

Sistem pengendali saklar berbasis Nodemcu ESP8266 dengan aplikasi MQTT dan Google Assistant (<https://ejournals.itda.ac.id/index.php/angkasa/article/view/1380>)

 Bekti Maryuni Susanto(1*), Agus Hariyanto(2), Denny Wijanarko(3), Moch Khafil Albab(4)

Affiliation :


1. Politeknik Negeri Jember
2. Politeknik Negeri Jember
3. Politeknik Negeri Jember
4. Politeknik Negeri Jember

(*) Corresponding Author


 [10.28989/angkasa.v14i2.1380](https://dx.doi.org/10.28989/angkasa.v14i2.1380) (<http://dx.doi.org/10.28989/angkasa.v14i2.1380>),  Abstract

view : 31 times,

page :

 Citations 0 ([https://badge.dimensions.ai/details/doi/10.28989/angkasa.v14i2.1380?](https://badge.dimensions.ai/details/doi/10.28989/angkasa.v14i2.1380?domain=https://ejournals.itda.ac.id)
domain=https://ejournals.itda.ac.id)

Strategi Meminimalkan Error Pada Teknisi Maintenance Mesin 350F dengan Systematic Human Error Reduction and Prediction Approach (SHERPA) di PT. XYZ (<https://ejournals.itda.ac.id/index.php/angkasa/article/view/1360>)

 Prasadanto Nur Santoso(1*), Esa Rengganis Sullyartha(2), Lamhot Maruli Sihombing(3)

Affiliation :

1. Institut Teknologi Dirgantara Adisutjipto Yogyakarta
2. Institut Teknologi Dirgantara Adisutjipto Yogyakarta

Journal Content

Search

Search Scope

All 

Browse

 [By Issue](https://ejournals.itda.ac.id/index.php/a)

 [By Author](https://ejournals.itda.ac.id/index.php/a)

 [By Title](https://ejournals.itda.ac.id/index.php/a)

 [Other Journals](https://ejournals.itda.ac.id/index.php/i)



3. Institut Teknologi Dirgantara Adisutjipto Yogyakarta

(*) Corresponding Author


 [10.28989/angkasa.v14i2.1360](https://dx.doi.org/10.28989/angkasa.v14i2.1360) (<http://dx.doi.org/10.28989/angkasa.v14i2.1360>),  Abstract

view : 95 times,

page :

 Citations  0 ([https://badge.dimensions.ai/details/doi/10.28989/angkasa.v14i2.1360?](https://badge.dimensions.ai/details/doi/10.28989/angkasa.v14i2.1360?domain=https://ejournals.itda.ac.id)
domain=<https://ejournals.itda.ac.id>)

[Analisis efektivitas desain komunikasi visual sebagai media promosi menggunakan customer response index](https://ejournals.itda.ac.id/index.php/angkasa/article/view/1235) (<https://ejournals.itda.ac.id/index.php/angkasa/article/view/1235>)

 Uyuunul Maudzoh(1*), Yuliani Indrianingsih(2), Astika Ayuningtyas(3)

Affiliation :



1. Instiitut Teknologi Dirgantara Adisutjipto
2. Institut Teknologi Dirgantara Adisutjipto
3. Institut Teknologi Dirgantara Adisutjipto

(*) Corresponding Author

 [10.28989/angkasa.v14i2.1235](https://dx.doi.org/10.28989/angkasa.v14i2.1235) (<http://dx.doi.org/10.28989/angkasa.v14i2.1235>),  Abstract

view : 14 times,

page :

 Citations  0 ([https://badge.dimensions.ai/details/doi/10.28989/angkasa.v14i2.1235?](https://badge.dimensions.ai/details/doi/10.28989/angkasa.v14i2.1235?domain=https://ejournals.itda.ac.id)
domain=<https://ejournals.itda.ac.id>)

ANGKASA Jurnal Ilmiah Bidang Teknologi

P-ISSN : 2085-9503, E-ISSN : 2581-1355

Research Center and Community Service

Adisutjipto Institute of Aerospace Technology

Jl. Majapahit, Blok-R, Lanud Adisutjipto Yogyakarta

Phone : +62 274 451262 (Hunting) and +62 274 451263 Fax : +62274451265

Web Design : [Public Knowledge Project](#)

Cover Design : [Mundilarno](#)

Themes : [Mason Publishing OJS theme](#)

Banner Design : [Hero Wintolo](#)

Copyright@2022 : LPPM ITDA

Licensed Under a



Jumlah Pengunjung : **00133133** dan [Statistik Angkasa](#)