

# Prof. Dr. Ir. Rosdanelli Hasibuan, M.T.

Lecturer of Master's Program in Chemical Engineering Study Program  
Faculty of Engineering  
Universitas Sumatera Utara

✉ [rosdanelli@usu.ac.id](mailto:rosdanelli@usu.ac.id)

🏢 Chemical Engineering Postgraduate Program, Faculty of Engineering, Universitas Sumatera Utara

🌐 [ft.usu.ac.id/en/lecturer/rosdanelli-hasibuan](http://ft.usu.ac.id/en/lecturer/rosdanelli-hasibuan)

*Prof. Dr. Ir. Rosdanelli Hasibuan, M.T. was born in P. Brandan on August 8, 1968. She is a Lecturer in Chemical Engineering at Universitas Sumatera Utara. Currently, she holds the position as the Head of the Master's and Doctoral Program in Chemical Engineering at USU. She completed a Doctoral Program in Chemical Engineering at UKM in 2005.*

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## Publications

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2023

Jurnal internasional bereputasi

### **Preparation and characterization of lithium, sodium, and potassium silicate from palm leaf as a potential solid base catalyst in developed biodiesel production**

ROSDANELLI HASIBUAN , RENITA MANURUNG

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2025

Prosiding seminar internasional

### **Drying Characteristics of Red Ginger Using Tray Dryer Integrated with Biomass Pyrolysis Reactor**

RISMA FAZILLAH , ROSDANELLI HASIBUAN

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2014

Jurnal nasional terakreditasi

### **PENGARUH ASAM STEARAT TERHADAP SIFAT KETEGUHAN PATAH/MODULUS OF RUPTURE PAPAN PARTIKEL TERMOPLASTIK BEKAS BERPENGISI TEMPURUNG KELAPA**

ROSDANELLI HASIBUAN

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2020

Prosiding seminar internasional

### **Determination of Cocoa Powder Particle Size Distribution by Using the Buoyancy Weighing-Bar Method**

ROSDANELLI HASIBUAN , RONDANG TAMBUN

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2025

Prosiding seminar internasional

### **Effect of solid base catalyst based silica from palm leaves in biodiesel production**

RENITA MANURUNG , ROSDANELLI HASIBUAN

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2026

Jurnal internasional bereputasi

### **Unlocking the potential of solar thermal technology: Pretreatment-driven enhancement in cassava flour production**

DEDY ANWAR , ELLYAS ALGA NAINGGOLAN , ROSDANELLI HASIBUAN , Klara Urbanova , Jan Banout

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2023

Prosiding seminar internasional

### **Estimation of the Settling Time of Wastewater Using the Buoyancy Weighing**

## Bar Method

RONDANG TAMBUN , ROSDANELLI HASIBUAN

2023

Jurnal nasional terakreditasi

### **Pengaruh Kondisi Operasi terhadap Karakteristik Pengeringan Jahe Merah (Zingiber officinale Var. Rubrum) Menggunakan Tray Dryer dengan Udara Panas dari Proses Pirolisis**

ROSDANELLI HASIBUAN

2023

Jurnal internasional bereputasi

### **Drying Kinetic Models of Rice Applying Fluidized Bed Dryer**

RENITA MANURUNG , ROSDANELLI HASIBUAN

2024

Prosiding seminar internasional

### **The utilization of bagasse from PG Kwala Madu as precursor in activated carbon production**

VIQRY PRAMANANDA , ROSDANELLI HASIBUAN , MUHAMMAD FAIZUL HISHAM , RONDANG TAMBUN

2024

Prosiding seminar internasional

### **Drying Kinetics of Rice Using a Flatbed Dryer with a Hot Air Source from a Biomass Waste Pyrolysis Reactor**

ROSDANELLI HASIBUAN

2023

Jurnal nasional terakreditasi

### **Pengaruh Suhu dan Waktu Pirolisis terhadap Karakteristik Arang dari Tempurung Kelapa**

ROSDANELLI HASIBUAN

2024

Prosiding seminar internasional

### **Corn Drying with a Rotary Dryer: Effect of Air Speed and Drying Temperature Operating Conditions**

ARYA SAKA WICAKSONO , RONDANG TAMBUN , ROSDANELLI HASIBUAN

2022

Jurnal internasional bereputasi

### **PERFORMANCE OF FLUIDIZED BED DRYER USING HOT AIRFROM PYROLYSIS APPARATUS IN RICE DRYING**

ROSDANELLI HASIBUAN

2025

Jurnal internasional bereputasi

### **Drying of red ginger slices using tray dryer integrated with pyrolysis reactor as a heat source: Evaluation on the drying characteristics, red ginger quality, and drying kinetics**

RISMA FAZILLAH , ROSDANELLI HASIBUAN

2025

Prosiding seminar internasional

### **Effect of solid base catalyst based silica from palm leaves in biodiesel production**

ALWI GERY AGUSTAN SIREGAR , RENITA MANURUNG , ROSDANELLI HASIBUAN

2025

Prosiding seminar internasional

### **Promoting Ecological Citizenship Through Community-Based Mangrove Plantation**

HODRIANI , OSBERTH SINAGA , TRI HARSONO , ROSDANELLI HASIBUAN , JUNAIDI

2022

Jurnal internasional bereputasi

## **Performance analysis of solar-biomass hybrid heat pump batch-type horizontal fluidized bed dryer using multi-stage heat exchanger for paddy drying**

ROSDANELLI HASIBUAN

2025

Prosiding seminar internasional

## **Quality analysis of soap noodles from palm fatty acid distillate-refined bleached deodorized palm stearin blend**

ROSDANELLI HASIBUAN , RONDANG TAMBUN

2023

Prosiding seminar internasional

## **Effect of adsorbent activation conditions from spent coffee ground (SCG) using H<sub>2</sub>SO<sub>4</sub> on Cr (VI) adsorption**

FATIMAH , ROSDANELLI HASIBUAN , HAFIFUDDIN ARIF

2021

Jurnal internasional bereputasi

## **Experimental investigation of the performance of a solar dryer integrated with solid desiccant columns using water based solar collector for medicinal herb**

ROSDANELLI HASIBUAN

2009

Jurnal internasional bereputasi

## **Quality changes of superheated steam-dried fibers from oil palm empty fruit bunches**

ROSDANELLI HASIBUAN

2023

Jurnal internasional bereputasi

## **Development of hybrid solar-assisted heat pump dryer for drying paddy**

ROSDANELLI HASIBUAN

2024

Jurnal internasional bereputasi

## **Preparation and characterization of lithium, sodium, and potassium silicate from palm leaf as a potential solid base catalyst in developed biodiesel production**

RENITA MANURUNG , ROSDANELLI HASIBUAN

2023

Prosiding seminar internasional

## **Purification of pecan shell liquid smoke using the distillation method to separate polycyclic aromatic hydrocarbons (PAHs)**

FEBRIANTI BR SITORUS PANE , MAYANG ANJALI SIANIPAR , RISMA FAZILLAH , ROSDANELLI HASIBUAN

## **Researches**

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2016

Penelitian Hibah Bersaing

## **PENGARUH TEMPERATUR GELATINISASI TERHADAP KARAKTERISTIK BIOPLASTIK DARI PATI BIJI DURIAN BERPENGISI KITOSAN**

ROSDANELLI HASIBUAN

## **Community Services**

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2018

## **Asesmen Lapangan terhadap Program Studi Teknik Kimia pada program S1 Universitas Internasional Semen Indonesia**

ASWATI MINDARYANI , ROSDANELLI HASIBUAN

2024

Ipteks Bagi Wilayah

**Program Pengelolaan Lingkungan Sehat, Bersih dan Nyaman dengan Penerapan Teknologi Proses Pengolahan Sampah Menjadi Produk Komersial Untuk Meningkatkan Pendapatan Masyarakat serta Penguatan Upaya Kesehatan Kerja Petani Pembibitan Tanaman Holtikultura di Desa Klambir Kecamatan Pantai Labu Kabupaten Deli Serdang**

YAYA HASANAH , ROSDANELLI HASIBUAN

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## Intellectual Property Rights

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2023

Paten nasional

**PEMBUATAN KATALIS BASA PADAT LITIMUM,NATRIUM DAN KALIUM SILIKA DARI DAUN KELAPA SAWIT**

RENITA MANURUNG , ROSDANELLI HASIBUAN , ALWI GERY AGUSTAN SIREGAR

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2023

Paten nasional

**Alat Pengereng Unggun Fluidisasi Tipe Vertikal**

ROSDANELLI HASIBUAN

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2023

Hak cipta nasional

**Teknologi Pengeringan Aplikasi Pengeringan Kombinasi**

RONDANG TAMBUN , ROSDANELLI HASIBUAN

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