

Sulastri Panggabean, STP, M.Si

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Sulastri Panggabean, STP, M.Si, born in Tarutung on 17 April 1985, is a lecturer in the Agricultural and Biosystems Engineering Study Program, Universitas Sumatera Utara. She has specific expertise in Renewable Energy Engineering and Biosystems Electricity. Sulastri completed her undergraduate education (Bachelor's degree) in Agricultural Engineering at the Faculty of Agriculture, Universitas Sumatera Utara, and continued her studies to earn a Master's degree at Bogor Agricultural University (Institut Pertanian Bogor) with a major in Agricultural and Food Machinery Engineering.

Sulastri Panggabean has made significant contributions to the development of knowledge in the fields of Renewable Energy Engineering and Biosystems Electricity. Her academic activities include research, community service, and mentoring students in agricultural-related fields. With her experience and expertise, Sulastri continues to strive to provide valuable insights to students and the wider community in addressing challenges in the agricultural sector.

Publications

2026

Prosiding seminar internasional

Increased electricity produced by solar panels with a cooling system

RAJU , SULASTRI PANGGABEAN , DELIMA LAILAN SARI NASUTION , FARHAN HARIARA LUBIS

2025

Jurnal nasional

Study on the Use of Perforated LPD (Low Pressure Drop) Type Static Mixer in the Catalytic Biodiesel Production Process

SULASTRI PANGGABEAN , NOPITA AISYAH TOBING

2025

Jurnal nasional terakreditasi

Improving the skills of IKBI Women's Group Helvetia Plantation PTPN II through hydroponic vegetable food diversification training

ANTONIO MARRO SIPAYUNG , KARINA NOLA SINAMO , SULASTRI PANGGABEAN , SEPLIN CERIA ULINA , ADINDA SALSABILA , ZAH RATUL AINI

2024

Prosiding seminar internasional

Processing corn cob waste (Zea mays L) into bioethanol

SULASTRI PANGGABEAN , EPRIDA SINTA BR SEBAYANG , MUHAMMAD AJIE SUKMA

2024

Jurnal nasional

Biogas Production from Tofu Processing Waste and Corncob with the Addition of Clam Shell Lime

SULASTRI PANGGABEAN , FAUZIAH

2023

Prosiding seminar internasional

Utilization of Biogas in Generators to Generate Electricity

RAJU , SULASTRI PANGGABEAN , YUNITA MAHARANI

2023

Jurnal internasional

Biogas Production from Tofu Processing Waste and Rice Straw with the

Addition of Beef Bone Lime

RIKI JASWANDI , SULASTRI PANGGABEAN

2023

Jurnal nasional

Biogas Production from Tofu Processing Waste and Rice Straw with the Addition of Beef Bone Lime

SULASTRI PANGGABEAN , RIKI JASWANDI

2022

Prosiding seminar internasional

Study of fluid flow movement of biodiesel production with helical static mixing reactor using computational fluid dynamics(CFD)

SULASTRI PANGGABEAN

2022

Prosiding seminar internasional

Study of Biodiesel Production Fluid Flow Patterns in LPD Type Static Mixing Reactors Using CFD Simulation for Sustainable Energy

SULASTRI PANGGABEAN

2021

Artikel ilmiah

Bio-oil characteristics of palm oil shell and empty fruit bunch (EFB) pyrolysis

SULASTRI PANGGABEAN

2021

Prosiding seminar internasional

The study of temperature variation in catalytic biodiesel production process using static mixing reactor

SULASTRI PANGGABEAN

2021

Artikel ilmiah

The effect of airflow distribution on temperature, liquid smoke, rice husk ash and plastic oil yield using prototype systems of pyrolysis equipment organic-inorganic waste

SULASTRI PANGGABEAN

2021

Prosiding seminar internasional

Bio-oil characteristics of palm oil shell and empty fruit bunch (EFB) pyrolysis

SULASTRI PANGGABEAN , RAJU

2020

Artikel ilmiah

Utilization of biofloc pond water as a substitute for nutrition in the pak choi hydroponic system

SULASTRI PANGGABEAN

2020

Artikel ilmiah

The effect of rice husk mass on temperature and characteristics of its ash using a pyrolysis equipment organic-inorganic waste

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2020

Artikel ilmiah

Simulation of biodiesel production using perforated helical type static mixer

SULASTRI PANGGABEAN

2019

Artikel ilmiah

Design and fabrication of integration of organic-inorganic waste pyrolysis equipment

SULASTRI PANGGABEAN

2019

Artikel ilmiah

Development of conceptual design and simulation of dapog system rice seed seedling machine for production scale

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2019

Artikel ilmiah

Drying characteristic of unhulled rice in biomass energy and combination rotary dryer

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2019

Artikel ilmiah

Design of curcuma chips dryer by utilizing the waste heat of commercial refrigerator condenser

SULASTRI PANGGABEAN

2019

Artikel ilmiah

CFD Analysis of Temperature Drying Chamber at Rotary Dryer with Combined Energy

SULASTRI PANGGABEAN

2018

Artikel ilmiah

Study of Waste Heat Potential of Commercial Refrigerator Condenser

SULASTRI PANGGABEAN

Researches

2025

PENINGKATAN LISTRIK YANG DIHASILKAN PANEL SURYA DI LAHAN PERTANIAN MELALUI SISTEM PENDINGINAN

SULASTRI PANGGABEAN , RAJU , DELIMA LAILAN SARI NASUTION , MUTIARA FANI LUBIS , HELMA AULIA

2021

Penelitian Dosen Pemula

PEMANFAATAN BIOGAS PADA GENERATOR UNTUK MENGHASILKAN LISTRIK

SULASTRI PANGGABEAN , RAJU , YUNITA MAHARANI

2020

Penelitian Dosen Pemula

RANCANG BANGUN KOMPOR GASIFIKASI TIPE KONTINYU DENGAN PEMANFAATAN TENAGA SURYA

SULASTRI PANGGABEAN , RAJU

2018

Penelitian Dosen Pemula

Rancang Bangun Rotary Dryer Tipe Hybrid Untuk Pengeringan Gabah

SULASTRI PANGGABEAN , ADIAN RINDANG

Community Services

2024

Ipteks Bagi Kewirausahaan

Diseminasi Teknologi Packaging Sebagai Upaya dalam Meningkatkan Nilai Jual Pupuk Organik Cair dan Sabun Eco Enzym

INDRA SAPUTRA KURNIAWAN , SULASTRI PANGGABEAN , RAJU , FARHAN HARIARA LUBIS , ANGGI INDRI KOKOINA

2023

**PENERAPAN TEKNOLOGI HIDROPONIK DAN PASCAPANEN SAYURAN
DALAM UPAYA PRODUKSI SAYURAN SEHAT DAN BERSIH KEPADA
KELOMPOK IBU IKBI KEBUN HELVETIA PTPN II**

KARINA NOLA SINAMO , SULASTRI PANGGABEAN , SENTOSA GINTING , ANTONIO MARRO SIPAYUNG , SEPLIN CERIA
ULINA , SERI RAHMADANI HARAHAHAP , ZAH RATUL AINI , ADINDA SALSABILA , HANIFAH AMINI

2023

Ipteks Bagi Masyarakat

**PENERAPAN TEKNOLOGI HIDROPONIK DAN PASCAPANEN SAYURAN
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