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Mersi Suriani Sinaga, S.T., M.T. was born in Medan on August 6, 1968, and is a lecturer in Chemical Engineering at Universitas Sumatera Utara. She completed a Master's Program in Chemical Engineering at USU in 2005.

Publications

2021

Jurnal internasional bereputasi

Utilization of Unsaturated Fatty Acid from Papaya Seed Oil Waste (Carica Papaya L) as Raw Materials in the Making of Epoxy Compounds

MERSI SURIANI SINAGA

2018

Prosiding seminar internasional

Effect of solvent volume ratio and time extraction of glycerol purification

MERSI SURIANI SINAGA

2019

Prosiding seminar internasional

Effect of Reaction Time and Catalyst Concentration on Making of Epoxy Compounds Using Sulphuric Acid Catalyst Based on Crystallized Palm Fatty Acid Distillate

MERSI SURIANI SINAGA

2018

Prosiding seminar internasional

Utilization of cacao peel waste to K₂O heterogeneous catalyst in biodiesel synthesis by waste cooking oil: effect of catalyst calcination temperature

MERSI SURIANI SINAGA

2025

Jurnal internasional

Quality Analysis of Biobriquettes Combination Ratio of Oil palm Frond and Water Hyacinth Waste with Durian Seed Flour Adhesive

MERSI SURIANI SINAGA , RONDANG TAMBUN

2018

Prosiding seminar internasional

Production of epoxy compounds from unsaturated fatty acids derived from crystallization of used cooking oil

MERSI SURIANI SINAGA

2018

Prosiding seminar internasional

The utilization of Sambung Nyawa (Gynura procumbent [Lour]. Merr) leaves extracts as an antioxidant for coconut oil by using ethanol solvent

MERSI SURIANI SINAGA

2023

Jurnal internasional bereputasi

The Effect Of Reaction Time On Kinematic Viscosity and Conversion In The Manufacturing of Bio-Lubricant Alternatives From Oleic Acid With Palm Kernel Shell Catalyst As An Approach to Renewable Energy

RONDANG TAMBUN , MERSI SURIANI SINAGA , MAULIDA

2019

Prosiding seminar internasional

Effect of Acidification Mole Ratio And Solvent Volume Ratio of Glycerol Purification

MERSI SURIANI SINAGA

2024

Jurnal internasional bereputasi

The Impact Of Hydrogen Peroxide Oxirane Oxygen Number Conversion In Epoxy Compounds Derived From Purple Passion Fruit Seeds

MERSI SURIANI SINAGA , RONDANG TAMBUN , EDUAR EFRODO NDRAHA , ARAVI ZALSA RAMADHAN

Researches

2015

Penelitian Unggulan Perguruan Tinggi

DAUR ULANG LIMBAH PLASTIK BEKAS KEMASAN GELAS (PBKG) DAN LIMBAH LIGNOSELULOSA DARI SERAT TANDAN KOSONG SAWIT (STKS) SEBAGAI BAHAN BAKU KOMPOSIT TERMODIFIKASI

HALIMATUDDAHLIANA , MAULIDA , MERSI SURIANI SINAGA

2022

Penelitian Strategis Nasional

Pembuatan Biolubricant dari Epoksidasi Asam Oleat Minyak Kelapa Sawit dengan Katalis Heterogen Cangkang Kela[pa Sawit untuk Pendekatan Energi Baru Terbarukan : Pengaruh Konsentrasi Katalis dan Waktu Reaksi

MERSI SURIANI SINAGA

2014

Penelitian Unggulan Perguruan Tinggi

Daur Ulang Limbah Plastik Bekas Kemasan Gelas (PBKG) dan Limbah Lignoselulosa da

AHMAD MULIA RAMBE , HALIMATUDDAHLIANA , MERSI SURIANI SINAGA

2020

Penelitian Unggulan Perguruan Tinggi

Pemanfaatan Biji Pepaya sebagai Bahan Baku dalam Pembuatan Senyawa Epoksi dengan Metode In-Situ

RONDANG TAMBUN , MERSI SURIANI SINAGA

Community Services

2024

Pemberdayaan Masyarakat Lokal disekitar Pabrik Sawit melalui Integrasi Pengolahan Limbah Cair Sawit dan Tandang Kosong pada produksi Biogas Skala Rumah Tangga dan Budidaya Jamur Merang di Desa Tadukan Raga Kecamatan STM Hilir Kabupaten Deli Serdang

FATIMAH , IRVAN , INDRA SURYA , MERSI SURIANI SINAGA

Intellectual Property Rights

2024

Paten nasional

PROSES PEMBUATAN BIOLUBRICANT DARI ASAM OLEAT MENGGUNAKAN KATALIS HETEROGEN CANGKANG KELAPA SAWIT

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