

Ir. Sri Zahrani Dwi Mauliyah Parinduri, S.T., M.T.

Dosen Program Studi S1 Teknik Kimia
Fakultas Teknik
Universitas Sumatera Utara

✉ srizahrani@usu.ac.id

🌐 ft.usu.ac.id/id/dosen/sri-zahrani-dwi-mauliyah-parinduri

Publications

2025
Artikel ilmiah

Influence of Parameters on Adsorption Process and Adsorption Isotherms of Commercial Activated Carbon for CO₂ Capture

SRI ZAHRANI DWI MAULIYAH PARINDURI

2025
Jurnal internasional bereputasi

Enhancing frass fertilizer efficiency with rice husk biochar and chicken manure via black soldier fly (*Hermetia illucens*) larvae composting

SRI ZAHRANI DWI MAULIYAH PARINDURI

2025
Prosiding seminar internasional

Transesterification reaction of palm oil catalyzed by nano- CaO/SiO₂ derived from waste chicken eggshell and palm oil mill boiler ash

RENITA MANURUNG , ALWI GERY AGUSTAN SIREGAR , SRI ZAHRANI DWI MAULIYAH PARINDURI

2026
Jurnal internasional bereputasi

Optimized Lithium-Impregnated Silica Catalyst from Corn Cob Waste for Enhanced Biodiesel Production: Structural Tuning and Circular Economy Application

ALWI GERY AGUSTAN SIREGAR , RENITA MANURUNG , SRI ZAHRANI DWI MAULIYAH PARINDURI

2025
Jurnal nasional terakreditasi

Potensi Tongkol Jagung Sebagai Material Karbon Tinta Cetak Offset

YUSNIA SINAMBELA , SRI ZAHRANI DWI MAULIYAH PARINDURI , ALWI GERY AGUSTAN SIREGAR

2026
Jurnal internasional bereputasi

Synthesis and characterization of nano-CaO/activated carbon green catalysts: A comparative analysis with silica-impregnated catalysts for palm oil biodiesel production

DR.TASLIM, IR, MSC , RENITA MANURUNG , SRI ZAHRANI DWI MAULIYAH PARINDURI , OKTA BANI

2025
Prosiding seminar internasional

The impact of impregnation temperature on the properties of nano-CaO catalysts with a silica matrix derived from chicken eggshell waste and palm oil boiler ash in the production of palm biodiesel

RENITA MANURUNG , AYUNI YUSTIRA , NURUL ATIKAH , SRI ZAHRANI DWI MAULIYAH PARINDURI

2026
Jurnal internasional bereputasi

Optimized Lithium-Impregnated Silica Catalyst from Corn Cob Waste for

Enhanced Biodiesel Production: Structural Tuning and Circular Economy Application

ALWI GERY AGUSTAN SIREGAR , RENITA MANURUNG , SRI ZAHRANI DWI MAULIYAH PARINDURI

2024

Prosiding seminar internasional

Reactivated Spent Bleaching Earth as a New Path in Waste Resource Utilization for the Crude Palm Oil Bleaching Process

RENITA MANURUNG , HAMIDAH HARAHAP , SRI ZAHRANI DWI MAULIYAH PARINDURI , SITI MAISARAH , ANDRE PRANATA

2026

Jurnal internasional

Enhancing frass fertilizer efficiency with rice husk biochar and chicken manure via black soldier fly (*Hermetia illucens*) larvae composting

SITI FATIMAH BATUBARA , SYARIFA MAYLY BOELIAN DACHBAN SP MP , DINI MUFRIAH , LISDAYANI , FITRA SYAWAL HARAHAP , BENNY HIDAYAT , SRI ZAHRANI DWI MAULIYAH PARINDURI

2026

Jurnal internasional bereputasi

Enhancing frass fertilizer efficiency with rice husk biochar and chicken manure via black soldier fly (*Hermetia illucens*) larvae composting

SYARIFA MAYLY BOELIAN DACHBAN SP MP , DINI MUFRIAH , LISDAYANI , BENNY HIDAYAT , SRI ZAHRANI DWI MAULIYAH PARINDURI , FITRA SYAWAL HARAHAP , Siti Fatimah Batubara

2025

Jurnal nasional terakreditasi

Pemanfaatan Minyak Jelantah pada Pembuatan Lilin Aromaterapi di SMP Yayasan Pendidikan Haji Masri (YPIHM) Medan

AYUNI YUSTIRA , SRI ZAHRANI DWI MAULIYAH PARINDURI , RENITA MANURUNG , NURUL ATIKAH

2024

Prosiding seminar internasional

Reactivated Spent Bleaching Earth as a New Path in Waste Resource Utilization for the Crude Palm Oil Bleaching Process

SRI ZAHRANI DWI MAULIYAH PARINDURI

Researches

2024

Penelitian Dosen Pemula

Kajian Jumlah SiO₂ dari Abu Sawit terhadap Karakteristik Katalis Biomassa Nano-CaO/SiO₂ Pada Reaksi Transesterifikasi Minyak Sawit

RENITA MANURUNG , SRI ZAHRANI DWI MAULIYAH PARINDURI , AYUNI YUSTIRA , NURUL ATIKAH

Community Services

2025

INOVASI DETERGEN RAMAH LINGKUNGAN BERBASIS METIL ESTER SULFONAT (MES) DAN ECO ENZYME UNTUK MENDUKUNG LINGKUNGAN BERSIH DAN BERKELANJUTAN DI YAYASAN AMAL DAN SOSIAL AL-WASHLIYAH

RISMA FAZILLAH , RENITA MANURUNG , SRI ZAHRANI DWI MAULIYAH PARINDURI , AYUNI YUSTIRA , ILHAM PERKASA BAKO

2024

Ipteks Bagi Masyarakat

EDUKASI CARA MENCEGAH GLOBAL WARMING BAGI CALON ENGINEER DI UNIVERSITAS SUMATERA UTARA

RENITA MANURUNG , SRI ZAHRANI DWI MAULIYAH PARINDURI , HAMIDAH HARAHAP , AYUNI YUSTIRA , FADYLLA RAMADHANI PUTRI NASUTION , NURUL ATIKAH

2024
Ipteks Bagi Masyarakat

**PENINGKATAN KREATIVITAS DAN PELATIHAN KEWIRAUSAHAWAN SISWA
DI SMP YAYASAN PENDIDIKAN ISLAM HAJI MASRI (YPIHM) DARUL ILMU
MEDAN MELALUI PEMANFAATAN MINYAK JELANTAH SEBAGAI BAHAN
DASAR PEMBUATAN LILIN AROMATERAPI**

RENITA MANURUNG , SRI ZAHRANI DWI MAULIYAH PARINDURI , AYUNI YUSTIRA , NURUL ATIKAH

Intellectual Property Rights

2024
Paten nasional

**PROSES PEMBUATAN KATALIS BASA PADAT NANO-KALSIUM OKSIDA YANG
DIIMPREGNASI DENGAN SILIKA DARI CANGKANG TELUR DAN ABU
CANGKANG SAWIT**

SRI ZAHRANI DWI MAULIYAH PARINDURI
