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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

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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
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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

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

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

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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

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

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

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Researches

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Penelitian Dosen Pemula

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

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MICROWAVE-ASSISTED CO-PYROLYSIS TANDAN KOSONG KELAPA SAWIT DAN LIMBAH PLASTIK SEBAGAI BAHAN BAKAR UNTUK Mendukung EKONOMI SIRKULAR DALAM KONSEP GREEN ECONOMY

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Community Services

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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

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Ipteks Bagi Masyarakat

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

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Ipteks Bagi Masyarakat

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

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

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