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Publications

2024
Jurnal internasional bereputasi

Impact of glycerol on oil palm trunk starch bioplastics enhanced with citric-acid epoxidized palm oil oligomers

MARPONGAHTUN , SUCI AISYAH AMATURRAHIM , AVERROES FAZLUR RAHMAN PILIANG , SAHARMAN GEA , HABIB HERNANDO , A. MUHAMMAD AFDHAL SAPUTRA , Elisa Julianti , Ronn Goei , Asst. Prof. Dr. Nattakan Soykeabkaew

2024
Jurnal internasional bereputasi

Biomass-derived N-doped Carbon Dots/TiO2 for Visible-Light-Induced Degradation of Methyl Orange in Wastewater

BOY ATTAURRAZAQ , Salmiati , Amru Daulay , ANDRIAYANI , SAHARMAN GEA , SUCI AISYAH AMATURRAHIM , MARPONGAHTUN

2023
Prosiding seminar internasional

The effect of ethylenediamine as passivation agent on the optical properties of carbon dots from molasses using the microwave method

MARPONGAHTUN , SUCI AISYAH AMATURRAHIM

2023
Prosiding seminar internasional

The characterization of agitated bacterial cellulose-based paper synthesized at various rotational speeds

DARWIN YUNUS NASUTION , SUCI AISYAH AMATURRAHIM , MARPONGAHTUN , SAHARMAN GEA

2023
Jurnal internasional bereputasi

Synthesis of magnetic activated carbon-supported cobalt(II) chloride derived from pecan shell (Aleurites moluccana) with co-precipitation method as the electrode in supercapacitors

SUCI AISYAH AMATURRAHIM , MUHAMMADIN HAMID , SUSILAWATI

2023
Jurnal internasional bereputasi

Synthesis of Nitrogen-Doped Carbon Dots from Nanocrystalline Cellulose by Pyrolysis Method as Hg2+ Detector

SUCI AISYAH AMATURRAHIM , YUGIA MUIS , SAHARMAN GEA , MARPONGAHTUN , ANDRIAYANI

2023
Jurnal internasional bereputasi

Synthesis of Nitrogen-Doped Carbon Dots from Nanocrystalline Cellulose by

Pyrolysis Method as Hg²⁺ Detector

MARPONGAHTUN , SAHARMAN GEA , ANDRIAYANI , SUCI AISYAH AMATURRAHIM

2022
Prosiding seminar internasional

Utilization of Coconut Waste as a Basic Material for Making Carbon Dots with Acid Oxidation Method

SUCI AISYAH AMATURRAHIM , MARPONGAHTUN

2021
Jurnal internasional bereputasi

GREEN PLASTICS BASED ON THERMOPLASTIC STARCH AND STEAM-EXPLODED NANOFIBER CELLULOSE

SITI UTARI RAHAYU , SAHARMAN GEA , SUCI AISYAH AMATURRAHIM , EMMA ZAIDAR , SOVIA LENNY

2018
Prosiding seminar internasional

Enhancing the quality of nata de coco starter by channeling the oxygen into the bioreactor through agitation method

SUCI AISYAH AMATURRAHIM , SAHARMAN GEA , SITI UTARI RAHAYU , ELISA JULIANTI

2018
Jurnal internasional bereputasi

Preparation of graphene oxide/bacterial cellulose nanocomposite via in situ process in agitated culture

SUCI AISYAH AMATURRAHIM , SAHARMAN GEA , DARWIN YUNUS NASUTION

Researches

2025

Enhancing Synergistic Degradation of Methyl Orange by Construction of S-Scheme Heterojunction betweem Fe3O4/N-CDs and Enhanced with P-CN via Photo-Fenton Oxidation: A Green Solution for Removal of Organic Pollutants

MINTO SUPENO , SUCI AISYAH AMATURRAHIM , AMIR HAMZAH SIREGAR , MARPONGAHTUN , KHANZA HUSNA BILBINA , NURUL HUSNA TRI FADHILA , Dr Shamila Binti Azman

2025
Penelitian Fundamental

Impregnasi abu janjangan kelapa sawit dalam material berpori sebagai katalis dalam pembuatan biodiesel menggunakan homogenizer

SUCI AISYAH AMATURRAHIM , JULIATI BR TARIGAN , HELMINA BR SEMBIRING

2025
Penelitian Unggulan Perguruan Tinggi

prototipe modifikasi karet alam dan limbah plistiren foam dengan aspal untuk penambalan jalan berlubang sesuai SNI

SUCI AISYAH AMATURRAHIM , DARWIN YUNUS NASUTION , TAMRIN

2024
Kerjasama Luar Negeri dan Publikasi Internasional

Photocatalytic Water Splitting Using Reduce Graphene Oxide/Cobalt doped Titanium Dioxide (rGO/Co-TiO2) Nanocomposites

MUHAMMADIN HAMID , SUSILAWATI , INDAH REVITA SARAGI , SUCI AISYAH AMATURRAHIM

2024
Penelitian Dana Lokal Perguruan Tinggi

Revolutionizing Oil Palm Health: Advanced Electrochemical Detection of Ganoderma Boninense via Nanoparticle-CMC and ZnO/rGO Enhanced Disposable Screen-Printed Carbon Electrodes

SUCI AISYAH AMATURRAHIM , SAHARMAN GEA , MARPONGAHTUN

2022

Sintesis Karbon Nanopartikel Dengan Metode Co-Presipitasi Untuk Bahan

Baku Pembuatan Elektroda Sel Surya

MUHAMMADIN HAMID , SUSILAWATI , SUCI AISYAH AMATURRAHIM

Community Services

2022
Ipteks Bagi Masyarakat

Pemanfaatan Hidrogel Alami Sebagai Alternatif Media Tanaman Hias di Madrasah Aliyah Swasta Muhammadiyah Sidomulyo Kabupaten Langkat

INDAH REVITA SARAGI , SUCI AISYAH AMATURRAHIM

Intellectual Property Rights

2025
Paten nasional

Alat Ledak Uap Biomassa Otomatis untuk Isolasi Polimer Alam dari Bahan Alam

SAHARMAN GEA , AVERROES FAZLUR RAHMAN PILIANG , SUCI AISYAH AMATURRAHIM , BOY ATTAURRAZAQ , MUHAMMAD IBADURRAHMAN , A. MUHAMMAD AFDHAL SAPUTRA , SRI RAHAYU