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Dr. Marpongahtun, M.Sc., was born in Berastagi, Karo, on November 15, 1961, and is a lecturer in Chemistry at Universitas Sumatera Utara. She completed a Doctoral Program in Electrochemistry at UTM in 2005.

Publications

2026
Jurnal internasional bereputasi

Enhancement of the Photocatalytic Activity of TiO2 Modified with Carbon Dots from Tamarind Seeds (Tamarindus indica L.) for Eco-friendly Naphthol B Dye Degradation

SAHARMAN GEA , MARPONGAHTUN , ANDRIAYANI

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Green one-pot synthesis of rGO/AgNPs-β-cyclodextrin nanocomposites using Miconia crenata leaf extract: Insights into structural, interfacial, optical, and textural evolution.

SAHARMAN GEA , MARPONGAHTUN , YENI WAHYUNI HARTATI , A. MUHAMMAD AFDHAL SAPUTRA , Stergios Goutianos , Ni Luh Wulan Septiani

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Carbon quantum dots surface decorated molybdenum disulfide by hydrothermal synthesis for tetracycline detector

MARPONGAHTUN , SAHARMAN GEA , YUNI ALDRIANI LUBIS , AISYAH RAMADHANI , ANISA NABILAH HARAHAP , AYUNDA AULIA ARSYAH , SEKAR AZHANI

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Comparison of B, S, and N-doped carbon dots from palm sugar and its optical properties

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MARPONGAHTUN , HERMAWAN PURBA , Athanasia Amanda Septevani

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MARPONGAHTUN , SAHARMAN GEA , ANIZA SALVIANA PRAYUGO

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ENVIRONMENTALLY SYNTHESISED YELLOW FLUORESCENT CARBON DOTS FOR ANTIBACTERIAL APPLICATIONS

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COAL-DERIVED GRAPHENE@POLIANILIN-ZINC OXIDE HYBRID NANOCOMPOSITE: A NEW MATERIAL WITH HIGH PERFORMANCE FOR PHOTOCATALYTIC APPLICATIONS

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SAHARMAN GEA , MARPONGAHTUN , YUNI ALDRIANI LUBIS , Woei Wu Larry Pai , Muhammad Frassetia Lubis

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Facile synthesis and electrochemical performance of bacterial cellulose/reduced graphene oxide/NiCo-layered double hydroxide composite film for self-standing supercapacitor electrode

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Facile synthesis and electrochemical performance of bacterial cellulose/reduced graphene oxide/NiCo-layered double hydroxide composite

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Synthesis, properties, and utilization of carbon quantum dots as photocatalysts on degradation of organic dyes: A mini review

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Highly fluorescent nitrogen-doped carbon dots derived from jengkol peels (Archindendron pauciflorum) by solvothermal synthesis for sensitive Hg²⁺ ions detection

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SYNTHESIS OF CARBON DOTS FROM EMPTY FRUIT BUNCH BIOCHAR VIA AN ACID-FREE HYDROTHERMAL METHOD

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Rice husk is renewable source in synthesis nanosilicon and its application as potential anode lithium-ion batteries

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Buku referensi

CARBON DOTS. Sintesis, Karakterisasai dan Aplikasinya.

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ANALYSIS FABRICATION OF POROUS CERAMICS FROM CLAY AND COPPER POWDER USING PALM OIL POWDER AS A PORE-FORMING AGENT FOR FILTERS IN MOTOR VEHICLE GAS

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Scalable synthesis of porous silicon nanoparticles from rice husk with the

addition of KBr as a scavenger agent during reduction by the magnesiothermic method as anode lithium-ion batteries with sodium alginate as the binder

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Coconut oil effect on the hygroscopic properties of Simalambuo wood (Lophopetalum spp.)

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Effect of Particle Size From Oil PalmWood Powder as Pore Forming Agent on Porosity and Hardness of Porous Ceramics Based on Clay and Polyvinyl Alcohol

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MARPONGAHTUN , CHAIRUL AMRI

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EXTRACTION SILICA FROM RICE HUSK WITH NaOH LEACHING AGENT WITH TEMPERATURE VARIATION BURNING RICE HUSK

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INFLUENCE OF ACETYLATED CELLULOSE NANOCRYSTAL INCORPORATED INTO POLY(E-CAPROLACTONE) NANOCOMPOSITES ON ITS THERMAL, MECHANICAL, AND PHYSICOCHEMICAL PROPERTIES

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Morphology of Bacterial Cellulose-Curcuma longa Linn from Acetobacter xylinum for Wound Healing

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Effect of variation temperature at burning rice husk to obtain silica

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SYAHMAN ZHAFIRI , JIHAN AULIA ERKIN , Ir. VIVI PURWANDARI, M.Si , MARPONGAHTUN

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PREPARATION AND CHARACTERIZATION OF BACTERIAL CELLULOSE SUPPLEMENTED Centella Asiatica L. Urban EXTRACT TO IMPROVE MECHANICAL PROPERTIES

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2020
Prosiding seminar internasional

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MARPONGAHTUN , LAMEK MARPAUNG , TAMRIN , WARDATUL HUSNA IRHAM

2020
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Phytochemicals screening and antibacterial activity of Curcuma longa Linn, Ziziphus mauritiana and Centella asiatica L. Urban extract.

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Aluminum Sulfate and Oxidized Bread Fruit Starch

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Green Synthesis of Silver Nanoparticles Using Muntingia calabura Leaf Extract and Evaluation of Antibacterial Activities

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PHYTOCHEMICAL SCREENING AND TOXICITY OF ETHANOLIC EXTRACT OF MANGROVE (Rhizophora mucronata) LEAVES FROM LANGSA, ACEH TIMUR

GIMELLIYA SARAGIH , ABDILLAH , TAMRIN , MARPONGAHTUN , DARWIN YUNUS NASUTION

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Fabrication of Composite Nanofibre PEO/Lignin for Exhaust Gas Emissions by Electrospinning

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Fluorescent Property of Carbon Nanodots Synthesized by Microwave Method from Crystal Nanocellulose as Precursor

MARPONGAHTUN , SAHARMAN GEA

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Marpongahtun. bioactive compounds in pegagan leaf (Centella asiatica L. Urban) for wound healing

MARPONGAHTUN , TAMRIN , LAMEK MARPAUNG , WARDATUL HUSNA IRHAM

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Bioactive Compounds In Pegagan Leaf (Centella asiatica L. Urban) for Wound Healing

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2018
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Acetylation of breadfruit utarch by Using Acetic Anhydride

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2018
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The influence of hydrolisis time on the crystallinity degree of cellulose and Î±â€“cellulose of oil palm wood (Elais guinensis Jack)

MARPONGAHTUN , DARWIN YUNUS NASUTION , YULY PUJIARTI , NAMI PANINDIA

2018
Artikel ilmiah

The preparation and characterization of bentonite nanoparticle from Bener Meriah, Indonesia

SAHARMAN GEA , MARPONGAHTUN

2018
Prosiding seminar internasional

Preparation of Semi-IPN Hidrogel from Starch Nanoparticles of Magrove Fruit and Monomer Acrylic Acid Using Crosslinker N, N’Methylene Bisacrylamide

MARPONGAHTUN , TAMRIN , DARWIN YUNUS NASUTION , ABDILLAH , GIMELLIYA SARAGIH

2018
Prosiding seminar internasional

The analysis of thermal and mechanical properties of biocomposite policaprolactone/ cellulose nanofiber from oil palm empty fruit bunches

SAHARMAN GEA , MARPONGAHTUN

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Prosiding seminar internasional

Preparation of semi-IPN hydrogel from starch nanoparticles of magrove fruit and monomer acrylic acid using crosslinker N,Nâ€™ methylene bisacrylamide

MARPONGAHTUN

2018
Prosiding seminar internasional

Abdillah, 2018. Preparation of Semi-IPN Hidrogel from Starch Nanoparticles of Magrove Fruit and Monomer Acrylic Acid Using Crosslinker N, N’Methylene Bisacrylamide

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Characterization of composite boards made of oil palm trunk flour/maleic anhydride grafted polypropylene

MARPONGAHTUN

2018
Artikel ilmiah

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MARPONGAHTUN

2015
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Determination of para-arsanilic acid with improved diazotization reaction using differential pulse cathodic stripping voltammetry in aqueous system

MARPONGAHTUN

2013
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Physical-Mechanical Properties And Microstructure Of Breadfruit Starch Edible Films With Various Plasticizer

MARPONGAHTUN

1997
Artikel ilmiah

The use of prompt gamma activation analysis in sediment samples from a

polluted marine environment

MARPONGAHTUN

Researches

2025

Efektivitas Nanokomposit Fe3O4/ N- Doped Carbon Dots/ ZIF-67 sebagai Fotokatalis dalam Degradasi Pewarna Kongo Merah

MINTO SUPENO , AMIR HAMZAH SIREGAR , MARPONGAHTUN , RAHMADANI FITRI , ANIZA SALVIANA PRAYUGO

2025

Efektivitas Nanokomposit Fe3O4/N-Doped Carbon Dots sebagai Fotokatalis dalam Degradasi Pewarna Kongo Merah: Sintesis, Karakterisasi, dan Kinerja di Bawah Sinar UV

ANDRIAYANI , MARPONGAHTUN , RAHMADANI FITRI

2023

Penelitian Dana Lokal Perguruan Tinggi

SINTESIS S,N-DOPED CARBON DOTS DARI KULIT JENGKOL UNTUK MENDETEKSI PEWARNA AMARANTH PADA MINUMAN BERWARNA

AMIR HAMZAH SIREGAR , MARPONGAHTUN

2023

Penelitian Kompetensi

Preparasi Hidrogel Polivinil alkohol dengan bahan pengisi grafena batubara untuk aplikasi foto-elektrokatalis

MUHAMMADIN HAMID , MAHYUNI HARAHAP , Ir. VIVI PURWANDARI, M.Si , MARPONGAHTUN

2022

Penelitian Tim Pasca Sarjana

LIMBAH KULIT JENGKOL (ARCHIDENDRON PAUCIFLORUM) SEBAGAI PREKURSOR CARBON DOTS UNTUK DETEKSI LOGAM MERKURI PADA KOSMETIK

SAHARMAN GEA , MARPONGAHTUN

2021

Penelitian Disertasi Doktor

Imobilisasi Enzim Glukosa Oksidase dan Horseradish Peroxidase dalam Nanocellulosa (NC-GOX/HRP) Sebagai Biosensor Glukosa Secara Kolorometri

ANDRIAYANI , MARPONGAHTUN

2020

Penelitian Unggulan Perguruan Tinggi

Modifikasi Carbon-dots dari Selulosa Nanokristal Tandan Kosong Sawit sebagai Prekursor dengan Metode Pirolisis

ANDRIAYANI , MARPONGAHTUN

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Modifikasi Carbon-dots dari Selulosa Nanokristal Tandan Kosong Sawit sebagai Prekursor dengan Metode Pirolisis

ANDRIAYANI , YUGIA MUIS , MARPONGAHTUN

2019

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Modifikasi Carbon-dots dari Selulosa Nanokristal Tandan Kosong Sawit sebagai Prekursor dengan Metode Pirolisis

ANDRIAYANI , YUGIA MUIS , MARPONGAHTUN

2018

Penelitian Unggulan Perguruan Tinggi

Pemanfaatan Serbuk Batang Kelapa Sawit Sebagai Agen Pembentuk Pori Pada

Pembuatan Keramik Berpori Dari Tanah Liat Dan Polivinyl Alkohol Untuk Filter Gas Buangan Kendaraan Bermotor

DARWIN YUNUS NASUTION , MARPONGAHTUN

Community Services

2014
Ipteks Bagi Masyarakat

Pelatihan Pembuatan Shampo Untuk Kendaraan Bermotor Pada Siswa-Siswa Sma Negeri Tanjung Tiram Kabupaten Batubara

YUGIA MUIS , MARPONGAHTUN

2013

Pelatihan Pemeriksaan Formalin Dalam Bahan Makanan Dan Pembuatan Sabun Cair Pada Kelurahan Rambung Dalam, Kota Binjai

YUGIA MUIS , SAHARMAN GEA , AMIR HAMZAH SIREGAR , DARWIN YUNUS NASUTION , MARPONGAHTUN

2012
Ipteks Bagi Masyarakat

Pelatihan Pembuatan Sabun Colek Dan Sabun Cair Untuk Skala Kecil Dan Menengah Di Desa Percut, Kecamatan Percut Sei Tuan, Kabupaten Deli Serdang

YUGIA MUIS , SAHARMAN GEA , DARWIN YUNUS NASUTION , MARPONGAHTUN

2011

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YUGIA MUIS , AMIR HAMZAH SIREGAR , DARWIN YUNUS NASUTION , MARPONGAHTUN , HARLEM MARPAUNG

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Paten nasional

Metode Pembuatan Carbon Dots dan Nitrogen Doped Carbon Dots dari Bottom Ash Batubara Meggunakan Teknik Ultrasonikasi dan Hidrotermal

MARPONGAHTUN , WIDAYATI , ANIZA SALVIANA PRAYUGO

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Paten nasional

Metode Pembuatan Carbon Dots dan Nitrogen Doped Carbon Dots dari Bottom Ash Batubara Meggunakan Teknik Ultrasonikasi dan Hidrotermal

ANIZA SALVIANA PRAYUGO , WIDAYATI , MARPONGAHTUN

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PROSES PEMBUATAN SELULOSA BAKTERI-EKSTRAK RIMPANG KUNYIT DENGAN METODE STIRRING

MARPONGAHTUN , WARDATUL HUSNA IRHAM

2022
Paten nasional

KOMPOSIT BERPORI BIOKERAMIK POLIKAPROLAKTON , KITOSAN TiO2 MENGGUNAKAN TEKNIK FREEZE-DRYING

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