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Dr. Muhammad Taufik, S.Si., M.Si dilahirkan di Tanjungbalai pada tanggal 09 Februari 1977. Beliau merupakan seorang dosen Kimia di Universitas Sumatera Utara. Beliau menyelesaikan pendidikan terakhirnya yakni S3 Kimia di Universitas Sumatera Utara pada tahun 2016.

Publications

2026
Jurnal internasional bereputasi

Silicon-mediated polyacrylic acid and ethylene vinyl acetate (PAA/EVA) dual-crosslinked network binder for highly stable lithium-ion battery anode

ANDRIAYANI , TAMRIN , MUHAMMAD TAUFIK , RAHMADINA , SUSILO SUDARMAN , EGA HIDAYANI , ANIZA SALVIANA PRAYUGO , ARDIANSYAH SEMBIRING , Muhammad Iqbal Hidayat , Nur Ahmad , Bahrun Bahrun , Yusuf Mathiinul Hakim , Ridho Prasetyo , Febio Dalanta

2026
Monograf

METODE ANALISIS TEMBAGA, TIMBAL, DAN SENG PADA ROAD DUST RESUSPENSION-SUSPENSION (RDR-S)

BOBY CAHYADY , MUHAMMAD TAUFIK

2026
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Phytochemical Screening And Antibacterial Activity Of N-Hexane, Ethyl Acetate, And Ethanol Extracts Of Malacca Fruit (Phyllanthus EmblicaL.) Against Escherichia ColiAnd Staphylococcus Aureus

MARIANY RAZALI , NURMALA SARI , SUPRAN HIDAYAT SIHOTANG , YESSI FEBRIANI , EVA SARTIKA DASOPANG , MUHAMMAD TAUFIK , RIKA SILVANY

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Phytochemical Screening And Antibacterial Activity Of N-Hexane, Ethyl Acetate, And Ethanol Extracts Of Malacca Fruit (Phyllanthus EmblicaL.) Against Escherichia ColiAnd Staphylococcus Aureus

YESSI FEBRIANI , MARIANY RAZALI , EVA SARTIKA DASOPANG , MUHAMMAD TAUFIK

2025
Buku referensi

Implementasi Lean Manufacturing pada Industri 4.0

NASARUDDIN , VINSENSIUS FAOT , MUHAMMAD TAUFIK , FRANS MANGNGI , ADE SUHARA

2025
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Implementasi Lean Manufacturing pada Industri 4.0

MUHAMMAD TAUFIK , ADE SUHARA , FRANS MANGNGI , VINSENSIUS FAOT , NASARUDDIN

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COMMUNITY-BASED PRODUCTION OF LIQUID SMOKE AS A NON-CARCINOGENIC FISH PRESERVATIVE:-

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2025
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Impact of atmospheric pressure DBD plasma treatment on the biodegradability, hydrophilicity, and mechanical properties of PVA/PEG/Chitosan/HA nanofibers for bone tissue engineering

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Impact of atmospheric pressure DBD plasma treatment on the biodegradability, hydrophilicity, and mechanical properties of PVA/PEG/Chitosan/HA nanofibers for bone tissue engineering

JAKA FAJAR FATRIANSYAH , HARTATIEK , YUDYANTO , AHMAD TAUFIQ , MARKUS DIANTORO , YUSRIL YUSUF , MUHAMMAD TAUFIK

2025
Prosiding seminar internasional

Development of antibacterial biofoam from Eucalyptus grandis, cassava, and synthetic plastic as an effort to increase storage time of Citrus sinensis

MARIANY RAZALI , MUHAMMAD TAUFIK

2025
Prosiding seminar internasional

Hydrothermal synthesis of nano silicon from rice husk and its use in lithium-ion batteries

ANDRIAYANI , TAMRIN , MUHAMMAD TAUFIK , SUSILO SUDARMAN

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Analysis of blood group on plastic using infrared spectrosopy through chemometrics approach

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Jurnal internasional bereputasi

Analysis of methamphetamine in Necrophagous diptera larvae cultured on beef

MUHAMMAD TAUFIK , HELMINA BR SEMBIRING , SOVIA LENNY

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Analysis of methamphetamine in Necrophagous diptera larvae cultured on beef

MUHAMMAD TAUFIK

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Analysis of blood group on plastic using infrared spectrosopy through chemometrics approach

MUHAMMAD TAUFIK , BOBY CAHYADY , MARIANY RAZALI , DESRI UTARY

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Analysis of methamphetamine in Necrophagous diptera larvae cultured on beef

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The prediction of hydroxyapatite crystallinity under various ion doping using machine learning

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Jurnal internasional

Forensic Chemistry Study: Analysis of Phenylpropanolamine Hydrochloride in Urine by UV-Vis Spectroscopy

MARIANY RAZALI , SUPRAN HIDAYAT SIHOTANG , NURMALA SARI , PRAVIL MISTRYANTO TAMBUNAN , DESI ARDILLA , FENA DEWI SARA MARBUN , BOBY CAHYADY , MUHAMMAD TAUFIK

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Validation Method of 3,4-Methylenedioxymethamphetamine (MDMA) Analysis Using Gas Chromatography Mass Spectroscopy

R. FANI MIRANDA , ANDRIAYANI , MUHAMMAD TAUFIK

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Green Synthesis of Barium Doped Titanium Dioxide Using Palm Leaf Extract (Elaeis guineensis Jacq.)

HENNY DUMARTA HUTAPEA , MUHAMMAD TAUFIK , ANDRIAYANI

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Analysis of River Water Quality in Medan Belawan Regency based on the Diversity Index of Aquatic Insects as an Effort to Improve the Health of River Ecosystems from Heavy Metal Contamination (Ni)

HELEN GANDARIA SITUMORANG , MUHAMMAD TAUFIK

2024
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Electrospun polyvinyl alcohol nanofiber scaffolds incorporated strontium-substituted hydroxyapatite from sand lobster shells: synthesis, characterization, and in vitro biological properties

MUHAMMAD TAUFIK

2024
Tulisan ilmiah

PENGEMBANGAN USAHA HOME INDUSTRI BRIKET ARANG MENGGUNAKAN BAHAN BAKU PERPADUAN BATOK KELAPA DAN BONGKOL JAGUNG

USWATUN HASANAH , MUHAMMAD TAUFIK , MARIANY RAZALI , NURMALA SARI , SUPRAN HIDAYAT SIHOTANG

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Synthesis and application of nano-silicon prepared from rice husk with the hydrothermal method and its use for anode lithium-ion batteries

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Bioactive Compounds in Barangan Banana Peel (Musa acuminata Colla.) as an Alternative for Antibacterial Drug Development

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Bioactive Compounds in Barangan Banana Peel (Musa acuminata Colla.) as an Alternative for Antibacterial Drug Development

MUHAMMAD TAUFIK , JUHARDI SEMBIRING , MARIANY RAZALI

2023
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ANALISIS NIKOTIN DALAM DAUN TEMBAKAU DELI (Nicotiana tabacum L)

RIDWANTO , MUHAMMAD TAUFIK , ATHAILLAH

2023
Jurnal internasional bereputasi

Analysis of Methamphetamine Using Necrophagous Insects For Forensic Entomotoxicology Applications

MUHAMMAD TAUFIK , HELMINA BR SEMBIRING

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Synthesis and application of nano-silicon prepared from rice husk with the hydrothermal method and its use for anode lithium-ion batteries

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Prosiding seminar internasional

Sonication technique for nicotine extraction from saliva and urine

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Analysis of Antimicrobial Activity from 1,8-cineole and Chitosan as Mouthwash

HARRY AGUSNAR , MUHAMMAD TAUFIK

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Application of solid phase extraction in lard separation in pork jerky and analysis using FTIR spectroscopy

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Laboratory investigation applications in identification and analysis of worn out blood samples of murder victims using infrared spectroscopy

BOBY CAHYADY , MUHAMMAD TAUFIK , ZUL ALFIAN

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Analysis of Antimicrobial Activity from 1,8-cineole and Chitosan as Mouthwash

HARRY AGUSNAR , MUHAMMAD TAUFIK

2023
Prosiding seminar internasional

Preface: 2nd International Conference on Chemical Science and Technology Innovation (ICOCSTI)

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2023
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Completely Randomized Design (CRD) Method on Lard Analysis Which was Adulterated to Palm Oil

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2022
Jurnal internasional

Relationship of Tobacco Weight in Commercial Cigarettes to Nicotine Levels

ANNY SARTIKA DAULAY , MUHAMMAD TAUFIK , MARIANY RAZALI

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Analysis of Arsenic in Purple Cabbage (Brassica Oleracea var. capitata L) after the Eruption of Mount Sinabung using Atomic Absorption Spectrophotometer

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Jurnal internasional bereputasi

A Simple Extraction Method for the Determination of Nicotine from Saliva

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Analysis of Arsenic in Purple cabbage (Brassica oleracea var. Capitata} L) after the Eruption of Mount Sinabung using Atomic Absorption Spectrophotometer

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Analysis of Lard Adulterated in Beef Sausages: Influence of n-hexane Concentration and Maceration Time

DAFNI MAWAR TARIGAN , DESI ARDILLA , MUHAMMAD THAMRIN , MUHAMMAD TAUFIK , REVI TRISNA SIREGAR

2022
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Analysis of Lard Adulterated in Beef Sausages: Influence of n-hexane Concentration and Maceration Time

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2022
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INVESTIGASI LABORATORIUM: DETEKSI NIKOTIN DARI AIR LUDAH PEROKOK AKTIF

ZUL ALFIAN , MUHAMMAD TAUFIK , BOBY CAHYADY

2022
Prosiding seminar nasional

INVESTIGASI LABORATORIUM : DETEKSI NIKOTIN DARI AIR LUDAH PEROKOK AKTIF

MUHAMMAD TAUFIK , BOBY CAHYADY , ZUL ALFIAN

2021
Jurnal nasional terakreditasi

Production of natural hand sanitizers from Aloe vera, Rambutan (Nephelium lappaceum L.) and Lime (Citrus aurantiifolia) barks, Betel (Piper betle) and Eucalyptus grandis leaves in Kotamatsum IV sub district, Medan City

MUHAMMAD TAUFIK , BOBY CAHYADY

2021
Jurnal nasional terakreditasi

Analisis Kadar Arsen (As) pada Sayur Kubis Hijau (Brassica oleracea L.) Pasca Erupsi Gunung Sinabung

BOBY CAHYADY , SUHARMAN , MUHAMMAD TAUFIK

2021
Prosiding seminar internasional

Separation of lard in adulterated multivitamins using chromatography and maceration methods

RIDWANTO , ANNY SARTIKA DAULAY , MUHAMMAD TAUFIK , MARIANY RAZALI , BOBY CAHYADY , HUSNUL ISA HARAHAP , DESI ARDILLA

2021
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Exploration of maceration methods for extracting of lard from industrial food products

RIDWANTO , ANNY SARTIKA DAULAY , ZUL ALFIAN , MUHAMMAD TAUFIK , BOBY CAHYADY

2021
Prosiding seminar internasional

Exploration of maceration methods for extracting of lard from industrial food products

ZUL ALFIAN , BOBY CAHYADY , MUHAMMAD TAUFIK

2021
Prosiding seminar internasional

Separation of lard in adulterated multivitamins using chromatography and

maceration methods

ZUL ALFIAN , BOBY CAHYADY , MUHAMMAD TAUFIK

2021
Prosiding seminar internasional

Analysis of lard in soybean oil adulterated in order to increase halal food

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2021
Prosiding seminar internasional

Nicotine separation from the urine of active smokers using Moringa oleifera on column chromatography

BOBY CAHYADY , MUHAMMAD TAUFIK , ZUL ALFIAN

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Prosiding seminar internasional

Nicotine separation from the urine of active smokers using Moringa oleifera on column chromatography

BOBY CAHYADY , ZUL ALFIAN , MUHAMMAD TAUFIK

2021
Prosiding seminar internasional

Decreased stress levels and nicotine concentrations in the urine of active smokers after consuming antioxidants

MUHAMMAD TAUFIK

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Nicotine separation from the urine of active smokers using Moringa oleifera on column chromatography

RIDWANTO , ANNY SARTIKA DAULAY , BOBY CAHYADY , ZUL ALFIAN , MUHAMMAD TAUFIK

2021
Prosiding seminar internasional

The relationship between vitamin C consumption and the stress level of active smokers in Medan city

MUHAMMAD TAUFIK

2021
Prosiding seminar internasional

Nicotine separation from the urine of active smokers using Moringa oleifera on column chromatography

BOBY CAHYADY , ZUL ALFIAN , MUHAMMAD TAUFIK

2020
Prosiding seminar internasional

The AAS Method for Arsen Analysis in Cabbage in the Area of Sinabung Post Eruption

BOBY CAHYADY , MUHAMMAD TAUFIK , SUHARMAN

2020
Jurnal nasional terakreditasi

Brackish Water Treatment into raw water using Moringa oleifera leaves as an adsorber at Habibie Mustafa College, Keramat Kubah Village, Tanjungbalai Town

MUHAMMAD TAUFIK

2020
Prosiding seminar internasional

The AAS Method for Arsen Analysis in Cabbage in the Area of Sinabung Post Eruption

MUHAMMAD TAUFIK , SUHARMAN , BOBY CAHYADY

2020
Prosiding seminar internasional

Identification and Analysis of Potential Antioxidants from Leaves of

Eucalyptus robusta PT. Toba Pulp Lestari, Tbk.

MUHAMMAD TAUFIK

2020
Prosiding seminar internasional

Development of Maceration Methods in the Investigation and Analysis of Lard in Industrial Food Products to Improve Halal Product in Indonesia

MUHAMMAD TAUFIK

2019
Prosiding seminar internasional

Effect of particle size on fresh turmeric (Curcuma Longa L.) and simplicia toward content of curcumin compound

RIDWANTO , MUHAMMAD TAUFIK , ANNY SARTIKA DAULAY , ASTRILIANA DAULAI

2019
Jurnal internasional

Relationship of Tobacco Weight in Commercial Cigarettes to Nicotine Levels

RIDWANTO , MARIANY RAZALI , MUHAMMAD TAUFIK , ANNY SARTIKA DAULAY , DESI ARDILLA , ENDANG SUSILAWATI , AFNIWATI , EVI DAYATUL ATIQAH

2019
Jurnal internasional bereputasi

Extraction and Analysis of Nicotine in the Urine of Active Smokers after given by Vitamin C

RIDWANTO , ENDANG SUSILAWATI , MUHAMMAD TAUFIK , AFNIWATI , MARIANY RAZALI , DESI ARDILLA , VIRDA LOLA BR TARIGAN

2019
Jurnal internasional bereputasi

GC-MS Analysis of Chemical Contents and Physical Properties of Essential Oil of Eucalyptus grandis from PT. Toba Pulp Lestari

MUHAMMAD TAUFIK , SOVIA LENNY , HARLEM MARPAUNG , ANDRIAYANI , ZUL ALFIAN

2019
Jurnal internasional bereputasi

GC-MS Analysis of Chemical Contents and Physical Properties of Essential Oil of Eucalyptus grandis from PT. Toba Pulp Lestari

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2018
Jurnal internasional bereputasi

The effect concentration of tetraethylorthosilicate and variation HCl 0.1M for synthesis mesoporous

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2018
Jurnal internasional bereputasi

The effect concentration of tetraethylorthosilicate and variation HCl 0.1M for synthesis mesoporous silica using oleic acid as template and 3-aminopropyltrimethoxysilane as co-structure directing Agent

ANDRIAYANI , MUHAMMAD TAUFIK

2018
Jurnal nasional

Studi Awal: Analisis Sifat Fisika Lemak Babi Hasil Ekstraksi Pada Produk Pangan Olahan

MUHAMMAD TAUFIK

2017
Jurnal nasional

STUDI PENDAHULUAN MASERASI COUPLING ELEKTROSINTESIS DALAM MENGEKSTRAKSI NIKOTIN YANG TERKANDUNG DALAM PUNTUNG ROKOK DAN ANALISA MENGGUNAKAN SPEKTROSKOPI UV-VIS

RIDWANTO , MUHAMMAD TAUFIK , DESI ARDILLA , MARIANY RAZALI , DAFNI MAWAR TARIGAN , SITI RAHMAH CIBRO

2017
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ANALISIS NIKOTIN DALAM DAUN TEMBAKAU DELI (Nicotiana tabacum L)

ANNY SARTIKA DAULAY , MUHAMMAD TAUFIK , RIDWANTO , MAYA HANDAYANI SINAGA , DESI ARDILLA , MARIANY RAZALI

2017
Jurnal nasional

Pemeriksaan Narkotika Menggunakan Sampel Urine

MUHAMMAD TAUFIK

2017
Jurnal nasional terakreditasi

Analisis Cepat Methamphetamin pada Rambut Pengguna Sabu Sabu Menggunakan Gas Kromatografi Spekstroskopi Massa

MUHAMMAD TAUFIK

2017
Jurnal internasional

Qualitative and Quantitative Analysis of Heavy Metal and Mineral of Volcanic Ashmount Sinabung by Using Inductively Coupled Plasma (Icp-Oes)

MUHAMMAD TAUFIK , ZUL ALFIAN , EMMA ZAIDAR

2016
Jurnal internasional bereputasi

Analysis of user’s hair cannabinoid of narcotic type of marijuana (Cannabis Sativa L.) using GCMS Technic

MUHAMMAD TAUFIK

2016
Makalah ilmiah

Analisis Cannabinoid dari Rambut Pengguna Narkotika Jenis Ganja (Cannabis sativa L.) Menggunakan Teknik GCMS

MUHAMMAD TAUFIK

2016
Jurnal internasional bereputasi

Analysis of Userâ€™s Hair Cannabinoid of Narcotic Type of Marijuana (Cannabis Sativa L.) Using GCMS Technic

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Prosiding seminar nasional

The effect concentration of tetraethylorthosilicate and variation HCl 0.1 M for synthesis mesoporous silica using oleic acid as template and 3-aminopropyltrimethoxysilane as coÂ …

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2026
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SJ, 2019. GC-MS Analysis of Chemical Contents and Physical Properties of Essential Oil of Eucalyptus grandis from PT. Toba Pulp Lestari

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Researches

2024
Penelitian Dana Lokal Perguruan Tinggi

Analisis Mechanical Properties pada Scaffold Karbonat Hidroksiapatit (CHA) Berbahan Dasar Biowaste Cangkang Kerang Darah (Anadara granosa) dan Variasi Polimer untuk Aplikasi Rekayasa Jaringan Tulang

MUHAMMAD TAUFIK

2024

Penelitian Tim Pasca Sarjana

Aplikasi Entomologi Forensik menggunakan Serangga Air untuk Menganalisis Kualitas Air Sungai di Kecamatan Medan Belawan sebagai upaya peningkatan Kesehatan Ekosistem Sungai dari cemaran Logam berat

ZUL ALFIAN , MUHAMMAD TAUFIK , HELEN GANDARIA SITUMORANG

2024
Penelitian Fundamental

Aplikasi Teknik Kromatograf sebagai Alternatif Pengembangan Alat Elektromedik dalam menganalisis Metamfetamin pada Maggot Lalat Necrophaguous secara Entomoksikologi Forensik

BOBY CAHYADY , ZUL ALFIAN , MUHAMMAD TAUFIK

2023
Ipteks Bagi Masyarakat

PENGGUNAAN NANO KOMPOSIT KITOSAN DARI CANGKANG KERANG HIJAU (PERNA VIRIDIS) UNTUK PENGOLAHAN AIR SUNGAI YANG TERCEMAR LOGAM BERAT DAN MINYAK SOLAR

BOBY CAHYADY , ZUL ALFIAN , MUHAMMAD TAUFIK

2023
Penelitian Fundamental

Aplikasi Teknik Kromatograf sebagai Alternatif Pengembangan Alat Elektromedik dalam menganalisis Metamfetamin pada Maggot Lalat Necrophaguous secara Entomoksikologi Forensik

ZUL ALFIAN , MUHAMMAD TAUFIK

2021

Deteksi nikotin dari Air Ludah Perokok Aktif secara laboratory investigation

BOBY CAHYADY , ZUL ALFIAN , MUHAMMAD TAUFIK

2021

Aplikasi metode Laboratory Investigation pada Identifikasi dan Analisis golongan darah tidak segar sampel model korban pembunuhan menggunakan spektroskopi Infra Merah

BOBY CAHYADY , MUHAMMAD TAUFIK

2020

Eksplorasi metode elektrosintesis dalam ekstraksi lemak babi pada Produk Pangan Industri dalam rangka pengembangan analisis produk pangan halal di Indonesia

BOBY CAHYADY , ZUL ALFIAN , MUHAMMAD TAUFIK

2020

Pemanfaatan kulit kerang sebagai bahan pengisi kolom kromatografi pada pemisahan lemak babi yang terdapat pada multivitamin teradulterasi

BOBY CAHYADY , MUHAMMAD TAUFIK

2020
Penelitian Dosen Pemula

Pemisahan nikotin pada urin perokok aktif menggunakan daun kelor sebagai bahan pengisi kolom kromatografi

BOBY CAHYADY , MUHAMMAD TAUFIK

2019
Penelitian Kerjasama Antar Perguruan Tinggi

Analisis Pemberian Vitamin C Terhadap Tingkat Stress dan Kadar Nikotin pada Urin Perokok Aktif di Kelurahan Tanjung Sari Kecamatan Medan Selayang Kota Medan Tahun 2019

MUHAMMAD TAUFIK

2019
Penelitian Fundamental

METODE SEDERHANA INVESTIGASI DAN ANALISIS LEMAK BABI PADA

PRODUK PANGAN INDUSTRI DALAM PENINGKATAN PRODUK HALAL DI INDONESIA

ZUL ALFIAN , MUHAMMAD TAUFIK

Community Services

2026

BAKSOS- Pengabdian Masyarakat Pascabanjir

BOBY CAHYADY , MUHAMMAD TAUFIK

2025

Bakti Sosial Bersama Kita Bisa

BOBY CAHYADY , MUHAMMAD TAUFIK

2025

BAKTI SOSIAL BERSAMA KITA BISA

MUHAMMAD TAUFIK , DELISMA MARSAULI SIMORANGKIR

2025

Bakti Sosial Bersama Kita Bisa dengan Kegiatan Pelayanan Medis, Pengobatan Massal untuk Masyarakat

HELMINA BR SEMBIRING , SABARMIN PERANGINANGIN , MUHAMMAD TAUFIK

2025

Baksi Sosial Bersama

MUHAMMAD TAUFIK

2022
Ipteks Bagi Masyarakat

Pengembangan Biofoam antibakteri dari Ranting Eucalyptus grandis, Kulit Singkong, dan plastik sintetik sebagai upaya untuk memperpanjang umur simpan buah jeruk manis (Citrus sinensis)

BOBY CAHYADY , RINI HARDIYANTI , MUHAMMAD TAUFIK , SOVIA LENNY

2021

Pemberantasan Lalat buah (Bactrocera sp.) pada Jeruk Manis (Citrus X Sinensis) menggunakan Biopestisida berbahan Eucalyptus grandis pada Kelompok Tani Bukit Rumah Sendi Kabupaten Karo

RINI HARDIYANTI , MUHAMMAD TAUFIK

2020

Pembuatan Hand Sanitizer Alami beraroma Eucalyptus sebagai upaya Pencegahan Penyebaran Covid-19 di Kelurahan Kotamatsum IV Kecamatan Medan Area Kota Medan

MUHAMMAD TAUFIK

2020

Pembuatan Hand Sanitizer Alami beraroma Eucalyptus sebagai upaya Pencegahan Penyebaran Covid-19 di Kelurahan Kotamatsum IV Kecamatan Medan Area Kota Medan

BOBY CAHYADY , MUHAMMAD TAUFIK

Intellectual Property Rights

2025
Hak cipta nasional

Implementasi Lean Manufacturing pada Industri 4.0

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2024
Hak cipta nasional

Pengembangan Usaha Home Industri Briket Arang Menggunakan Bahan Baku Perpaduan Batok Kelapa Dan Bongkol Jagung

NURMALA SARI , MARIANY RAZALI , USWATUN HASANAH , SUPRAN HIDAYAT SIHOTANG , MUHAMMAD TAUFIK

2024
Hak cipta nasional

Pengembangan Usaha Home Industri Briket Arang Menggunakan Bahan Baku Perpaduan Batok Kelapa Dan Bongkol Jagung

MUHAMMAD TAUFIK

2020
Paten nasional

Metode untuk Mendeteksi Cannabinoid menggunakan Sampel Rambut Pengguna Narkotika Jenis Ganja (Cannabis sativa L) ï»¿

MUHAMMAD TAUFIK , ZUL ALFIAN , BOBY CAHYADY

2020
Paten nasional

Metode Untuk Mendeteksi Cannabinoid Menggunakan Sampel Rambut Pengguna Narkotika Jenis Ganja

AFNIWATI , ENDANG SUSILAWATI , MUHAMMAD TAUFIK , ZUL ALFIAN , MARIANY RAZALI , BOBY CAHYADY , MAYA HANDAYANI SINAGA

2020
Paten nasional

Metode untuk Mengekstraksi Nikotin dari Urin Perokok Aktif

BOBY CAHYADY , MUHAMMAD TAUFIK , ZUL ALFIAN

2020
Paten nasional

Metode untuk mengekstraksi Nikotin dari Air Ludah Perokok

MUHAMMAD TAUFIK , BOBY CAHYADY , ZUL ALFIAN , HARLEM MARPAUNG

2020
Paten nasional

Metode untuk mengekstraksi Nikotin dari Air Ludah Perokok

BOBY CAHYADY , MUHAMMAD TAUFIK , ZUL ALFIAN , HARLEM MARPAUNG