Dr.Eng. Ir. Taufiq Bin Nur, S.T., M.Eng.Sc.

Dosen Program Studi S2 Teknik Mesin
Fakultas Teknik
Universitas Sumatera Utara

taufiq.bin_nur@usu.ac.id

Program Pascasarjana Teknik Mesin, Fakultas Teknik, USU

081262015568

ft.usu.ac.id/id/dosen/taufiq-bin-nur

Dr.Eng. Ir. Taufiq Bin Nur, S.T., M.Eng.Sc dilahirkan di Banda Aceh pada tanggal 18 Juli 1975 merupakan seorang dosen Teknik Mesin di Universitas Sumatera Utara. Beliau menyelesaikan pendidikan terakhirnya yakni S3 Hydrogen Energy Systems di Kyushu University di Jepang pada tahun 2015.

Publications

2026
Prosiding seminar internasional

Temperature and Pressure Distribution Simulation Analysis of an Expander for Organic Rankine Cycle Application

TAUFIQ BIN NUR , SARI FARAH DINA , HANAFI HIDAYAT , GERARDO RAMBAN BREMANA PINEM

2026
Prosiding seminar internasional

Simulation Analysis of the Impact of Heat Loss in the Air Preheater and Its Effect on the Performance of the Circulating Fluidized Bed Boiler

TAUFIQ BIN NUR , YUSRIL HALOMOAN HASIBUAN , IZWAR EFENDI TANJUNG

2026
Monograf

Analisis Karakteristik dan Unjuk Kerja Pembakaran Mesin Otto Stasioner Menggunakan Minyak Pirolisis dari Limbah Plastik dengan Aditif Metanol

ENZO WIRANTA BATTRA SIAHAAN , TULUS BURHANUDDIN SITORUS , HIMSAR AMBARITA , TAUFIQ BIN NUR

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2025
Prosiding seminar internasional

Tensile strength analysis of high density polythylene mixed with natural rubber as composite pipe material

RAFSANZANI PANE , TAUFIQ BIN NUR

2025
Prosiding seminar internasional

Preparation of palm oil mill boiler ash (POMBA) as microfiller in HDPE-based composites for cold sea water pipe of ocean thermal energy conversion (OTEC)

power plant

DIANA ADNANDA NASUTION , TAUFIQ BIN NUR

2025
Prosiding seminar internasional

Preparation of palm oil mill boiler ash (POMBA) as microfiller in HDPE-based composites for cold sea water pipe of ocean thermal energy conversion (OTEC) power plant

M DALIL , BASUKI , TAUFIQ BIN NUR

2025
Jurnal internasional bereputasi

The role of sugarcane bagasse and TiC particle on the characteristics improvement of polymer composites

IKHWANSYAH ISRANURI , SUPRIANTO , TULUS BURHANUDDIN SITORUS , TAUFIQ BIN NUR , BAKHRUL ILMI

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Jurnal internasional bereputasi

Review of Pyrolysis Properties of Plastic Waste with Dimethyl Carbonate (DMC) into Alternative Fuel in Otto Engine

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TULUS BURHANUDDIN SITORUS , HIMSAR AMBARITA , TAUFIQ BIN NUR

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Jurnal internasional bereputasi

Catalytic Pyrolysis of Plastic Waste for Gasoline Fuel: Reaction Mechanism Engine Integration

JANTER PANGADUAN SIMANJUNTAK , ENZO WIRANTA BATTRA SIAHAAN , TAUFIQ BIN NUR , HIMSAR AMBARITA , ILMI , TULUS BURHANUDDIN SITORUS

2025
Jurnal internasional bereputasi

An integrative review of dual-fuel strategies, Nano-additives, and emission control in compression ignition engines fueled by renewable energy sources

TAUFIQ BIN NUR , TULUS BURHANUDDIN SITORUS

2024
Jurnal nasional

Empowering Indonesian Da’wah Academy North Sumatera Students through AI-Driven Content Creation

TRI WIDYAWATI , YUNILDA ANDRIYANI , TAUFIQ BIN NUR , IMAM BAGUS SUMANTRI

2024
Prosiding seminar internasional

Experimental investigation of natural flow collectors in solar desalination with glass cover

TAUFIQ BIN NUR , FAREL HASIHOLAN NAPITUPU , HIMSAR AMBARITA , MUNAWAR ALFANSURY SIREGAR , MUNAWAR ALFANSURY SIREGAR

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Prosiding seminar internasional

From waste to wealth: an economic analysis of briquette from empty fruit bunch within the circular economy framework

RULIANDA PURNOMO WIBOWO , TAUFIQ BIN NUR , DIAN PEBRIYANI , PUTRI NADIYAH SYARIFA NASUTION

2024
Jurnal internasional bereputasi

Experiments’ feasibility study of solar stills in Indonesia, using evaporator covers and cornerless solar collectors

TAUFIQ BIN NUR , HIMSAR AMBARITA , FAREL HASIHOLAN NAPITUPU , MUNAWAR ALFANSURY SIREGAR

2024
Jurnal internasional bereputasi

Novel biolubricant synthesis: Enhancing the composition of used cooking oil and Callophyllum inophyllum oil by utilizing infrared heating method

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2024
Artikel ilmiah

Novel biolubricant synthesis: Enhancing the composition of used cooking oil and Callophyllum inophyllum oil by utilizing infrared heating method

BELA NURULITA , TAUFIQ BIN NUR , ARRIDINA SUSAN SILITONGA , ABDI HANRA SEBAYANG , SIHAR SIAHAAN , MUNAWAR ALFANSURY SIREGAR , Teuku Meurah Fahmi , Deswita Syahda , Md Abdul Kuddus Sheikh , Nurin Wahidah Mohd Zulkifli

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Jurnal internasional bereputasi

Exergy Analysis of Hydrogen-Rich Syngas Production System Utilizing Palm Oil Empty Fruit Bunch using Pyrolysis Connected with Steam Methane Reformer

Syafiie Syam , TAUFIQ BIN NUR

2024
Prosiding seminar internasional

Organic Rankine Cycle System Design by Utilizing The Waste Heat of Internal Combustion Engine Based on Numerical Simulation

TAUFIQ BIN NUR , DANIL WIRANDI PUTRA

2024
Buku referensi

Minyak Pirolisis Plastik Sebagai Aditif pada Biodiesel Biji Karet

TAUFIQ BIN NUR , HIMSAR AMBARITA , TULUS BURHANUDDIN SITORUS , ILMI , ABDI HANRA SEBAYANG , BISRUL HAPIS TAMBUNAN

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Jurnal internasional bereputasi

CO2 absorption using aqueous potassium carbonate (K2CO3) promoted by piperazine (PZ) in packed column reactor

MUHAMMAD NOVIANSYAH ARIDITO , MUHAMMAD SIGIT CAHYONO , IRVAN , BAMBANG TRISAKTI , TAUFIQ BIN NUR

2024
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Aspen Plus simulation analysis of hydrogen production from biomass pyrolysis integrated with steam methane reformer unit

Syafiie Syam , TAUFIQ BIN NUR

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CO2 absorption using aqueous potassium carbonate (K2CO3) promoted by piperazine (PZ) in packed column reactor

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CO2 absorption using aqueous potassium carbonate (K2CO3) promoted by piperazine (PZ) in packed column reactor

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Experimental Study of Combustion Chamber Performance Utilizing Biochar from Empty Fruit Bunch (EFB) as Fuel with Variation in Excess Air

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Jurnal internasional bereputasi

A comprehensive exploration of jatropha curcas biodiesel production as a viable alternative feedstock in the fuel industry â Performance evaluation and

feasibility analysis

TAUFIQ BIN NUR , BELA NURULITA

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Jurnal internasional bereputasi

Performance Analysis of a Diesel Generator Using Dexlite Mixed Fuel with Bio-Oil Produced from Coffee Grounds Pyrolysis

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Aspen Plus Simulation Analysis on Palm Oil Mill Effluent (POME) Recycling System into Bioethanol

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Utilization of effluent biodigester as a bioactivactor for the decomposition of rice husk (Oryza sativa) into compost

TAUFIQ BIN NUR , DELVIAN , IRVAN

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Simulation Analysis of The Utilizing Oil Palm Mill Waste Into Hydrogen Energy Through The Biomass Pyrolysis

TAUFIQ BIN NUR , SAHARMAN GEA , IRVAN

2022
Jurnal nasional terakreditasi

Kajian Pemanfaatan Cangkang Sawit Sebagai Pengganti Solar Industri Pada Sistem Thermal Oil Heater di Pabrik Resin

TAUFIQ BIN NUR , SARI FARAH DINA , POLTAK EVENCUS HUTAJULU , JUSTAMAN ARIFIN KARO KARO

2022
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Model combination of biodigester and composter

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2022
Jurnal internasional bereputasi

Experimental Investigation and Simulation of Slow Pyrolysis Process of Arabica Coffee Agroindustry Residues in a Pilot-Scale Reactor

ADI SETIAWAN , TAUFIQ BIN NUR

2022
Prosiding seminar internasional

Simulation Analysis on Palm Oil Mill Efï¬‚uent (POME) Recycling System into Bioethanol

INDRA SURYA , TAUFIQ BIN NUR

2022
Artikel ilmiah

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INDRA SURYA , TAUFIQ BIN NUR

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Utilization of effluent biodigester as a bioactivactor for the decomposition of rice husk (Oryza sativa) into compost

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Simulation Analysis of the Pyrolysis Process for the Production of Syngas from Oil Palm Empty Fruit Bunch and Fiber

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Prosiding seminar internasional

Prediction of the monthly cost of energy usage by PEMFC at housing in North Sumatra Province, Indonesia

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Design and analysis of biomass pyrolysis briquette molding machine

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Simulation Analysis of the Pyrolysis Process for the Production of Syngas from Oil Palm Empty Fruit Bunch and Fiber

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2021
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Simulation analysis of bio-oil from slow pyrolysis using palm empty fruit bunch

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Tulisan ilmiah

Design and analysis of biomass pyrolysis briquette molding machine

RULIANDA PURNOMO WIBOWO , TAUFIQ BIN NUR

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Effect of Densiï¬¬cation Pressure on Physical and Combustion Properties of Binderless Briquettes Made from Rice-Husk and Coffee-Pulp

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Comparison Coal Low-Grade Fuel and Mixture Palm Kernel Shell with Palm Fiber Fuel for Energy at Boiler Water Tube

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Design of Hydrogen Fuel Supply Chain Distribution Network from the Potency of Palm Oil Empty Bunches

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2020
Tulisan ilmiah

Simulation Analysis of Polymer Electrolyte Membrane Fuel Cell Using Aspen Plus

TAUFIQ BIN NUR , TULUS BURHANUDDIN SITORUS

2020
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Performance Gasoline Generator Engine Fueled Liquid Petroleum Gas

TULUS BURHANUDDIN SITORUS , TAUFIQ BIN NUR

2020
Tulisan ilmiah

Hydrogen Gas Production Simulation Utilizing Empty Fruit Bunch of Oil Palm Pyrolysis Unit by Steam Methane Reforming Process

TAUFIQ BIN NUR , FAREL HASIHOLAN NAPITUPU

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Simulation Analysis of Polymer Electrolyte Membrane Fuel Cell Using Aspen Plus

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2020
Prosiding seminar internasional

Analysis of energy efficiency in the Krueng Raya TBBM Pertamina building using the energy audit method

TAUFIQ BIN NUR , HIMSAR AMBARITA

2020
Tulisan ilmiah

Optimization and design of energy monitoring system in fuels terminal: A case study in North Sumatera province of Indonesia

HIMSAR AMBARITA , TAUFIQ BIN NUR

2020
Tulisan ilmiah

Analysis of energy efficiency in the Krueng Raya TBBM Pertamina building using the energy audit method

TAUFIQ BIN NUR , HIMSAR AMBARITA

2020
Tulisan ilmiah

Thermal decomposition of Gayo Arabica coffee-pulp in a segmented chamber

TAUFIQ BIN NUR

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Hydrogen Gas Production Simulation Utilizing Empty Fruit Bunch of Oil Palm Pyrolysis Unit by Steam Methane Reforming Process

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2019
Tulisan ilmiah

Combustion characteristics of densified bio-char produced from Gayo Arabica coffee-pulp: Effect of binder

TAUFIQ BIN NUR

2019
Tulisan ilmiah

Economic Feasibility Analysis of Hydrogen Production from Raw Materials of Oil Palm Empty Fruit Bunches

TAUFIQ BIN NUR

2019
Prosiding seminar internasional

Economic Feasibility Analysis of Hydrogen Production from Raw Materials of Oil Palm Empty Fruit Bunches

MANGARA M TAMBUNAN , KHALIDA SYAHPUTRI , RAHMI MEILINA SARI , TAUFIQ BIN NUR , INDAH RIZKYA TARIGAN

2019
Jurnal nasional

RANCANG BANGUN SOLAR COLD STORAGE DENGAN KAPASITAS 10 KILOGRAM

TAUFIQ BIN NUR

2019
Artikel ilmiah

Densification of bio-char produced through a slow pyrolysis of Arabica coffee-pulp at various pressures

TAUFIQ BIN NUR

2019
Prosiding seminar internasional

Techno-economic analysis of organic rankine cycle fueled biomass waste from palm oil mill

TAUFIQ BIN NUR

2018
Prosiding seminar internasional

Design and process integration of organic Rankine cycle utilizing biomass for power generation

TAUFIQ BIN NUR

2018
Tulisan ilmiah

Exergy analysis of biomass organic Rankine cycle for power generation

TAUFIQ BIN NUR

2018
Tulisan ilmiah

Performance analysis of low temperature heat source of organic Rankine cycle for geothermal application

TAUFIQ BIN NUR

2018
Tulisan ilmiah

Integrated biomass pyrolysis with organic Rankine cycle for power generation

TAUFIQ BIN NUR

2017
Tulisan ilmiah

IbM PENYEDIAAN SUMBER AIR BERSIH UNTUK KEBUTUHAN RUMAH TANGGA MASYARAKAT KURANG MAMPU DI DUSUN II DESA BAGAN KUALA KECAMATAN TANJUNG BERINGIN KABUPATEN SERDANG BEDAGAI

TAUFIQ BIN NUR

2017
Tulisan ilmiah

Application of biomass from palm oil mill for organic Rankine cycle to generate power in north Sumatera Indonesia

TAUFIQ BIN NUR

2015
Tulisan ilmiah

ANALISA PERFORMANSI TURBIN VORTEX MENGGUNAKAN PERANGKAT LUNAK CFD DENGAN VARIASI DIMENSI SUDU I DAN SUDU III, DEBIT AIR MASUK SERTA LUAS SALURAN BUANG

TAUFIQ BIN NUR

2015
Tulisan ilmiah
UJI PERFORMANSI TURBIN ANGIN PROFIL SUDU NACA 0018 SEBAGAI PENGGERAK AERATOR DI TAMBAK UDANG
TAUFIQ BIN NUR

2015
Jurnal internasional bereputasi
Conceptual design of light integrated gasification fuel cell based on thermodynamic process simulation
TAUFIQ BIN NUR

2015
Tulisan ilmiah
Sensitivity analysis for the efficiency improvement of a light integrated gasification fuel cell power plant
TAUFIQ BIN NUR

2014
Tulisan ilmiah
Thermodynamic Modeling and Parametric Study of an Integrated Gasification Fuel Cell Combined Cycle (IGFC)
TAUFIQ BIN NUR

2014
Prosiding seminar internasional
Thermodynamic Modeling and Parametric Study of an Integrated Gasification Fuel Cell Combined Cycle (IGFC)
TAUFIQ BIN NUR

2012
Tulisan ilmiah
Feasibility Study of SOFC as Heat and Power for Buildings
TAUFIQ BIN NUR

2011
Jurnal internasional bereputasi
Exergy analysis for day lighting, electric lighting and space cooling systems for a room space in a tropical climate
TAUFIQ BIN NUR

2008
Prosiding seminar internasional
OPTIMIZATION OF RADIAL CONVECTIVE RADIATING FIN GEOMETRY FOR SINGLE CYLINDER INTERNAL COMBUSTION ENGINE (ICE): ENTROPY GENERATION MINIMIZATION
TAUFIQ BIN NUR

2007
Jurnal internasional bereputasi
Second law analysis for optimal thermal design of radial fin geometry by convection
TAUFIQ BIN NUR

2007
Jurnal internasional bereputasi
Exergy analysis of evaporative cooling for reducing energy use in a Malaysian building
TAUFIQ BIN NUR

2007
Jurnal internasional bereputasi
Correlation between thermal conductivity and the thickness of selected insulation materials for building wall

TAUFIQ BIN NUR

2006
Tulisan ilmiah

Exergy Analysis for Daylighting, Electric-Lighting and Space Cooling Systems in Malaysian Building

TAUFIQ BIN NUR

Researches

2026
Ipteks

Integrated Geophysics, Materials Engineering, and Mechanical Systems for Sustainable Energy Exploration and Conversion - EQUITY USU Program 2025-2026

WIDODO , SYARIZAL FONNA , TAUFIQ BIN NUR

2025
Ipteks

Pengaruh Konsentrasi Katalis TiO2 Terhadap Karakteristik dan Performansi Tribologi Bio-pelumas dari Kulit Durian

TAUFIQ BIN NUR , JUNI IHWANDA , MUHAMMAD JEFFRY MACHMURIZA , Prof. Dr. Ir. Syafiie Syamaun, ST., DEA.

2023

Proses Peningkatan Mutu Biogas dari Palm Oil Mill Effluent (POME) dengan Sistem Absorpsi K2CO3 Berpengaktif Piperazin dan Konversinya menjadi Asam Format dengan Proses Elektrokimia

IRVAN , MUHAMMAD SIGIT CAHYONO , MUHAMMAD NOVIANSYAH ARIDITO , TAUFIQ BIN NUR

2023
Riset Andalan Perguruan Tinggi dan Industri

Hilirisasi Biochar dan Bio-oil sebagai Pupuk Organik dari Proses Pirolisis Biomassa Limbah Pabrik Kelapa Sawit

MARIANI BR SEMBIRING , RULIANDA PURNOMO WIBOWO , TAUFIQ BIN NUR

2022
Penelitian Unggulan Perguruan Tinggi

Sistem Produksi dan Penyimpanan Hidrogen dari Pirolisis Biomassa Limbah Pertanian Serta Pemanfaatannya sebagai Bahan Bakar Mesin Pembakaran Dalam dan Sel Bahan Bakar

SAHARMAN GEA , IRVAN , TAUFIQ BIN NUR , Harditya Umaraul Haq , DONY WALFARED KURNIAWAN MARPAUNG , Iqbal Syamputra Tanjung , RAHMAT KHOLIS HARAHAP

2020
Penelitian Unggulan Perguruan Tinggi

Kajian Pemanfaatan Tanaman Eceng Gondok (Water Hyacinth) untuk Pembuatan Bioetanol dan Pengaruhnya terhadap Performansi Mesin Pembakaran Dalam (Internal Combustion Engine)

RULIANDA PURNOMO WIBOWO , INDRA SURYA , TAUFIQ BIN NUR

2020
Penelitian Unggulan Perguruan Tinggi

Penghematan Bahan Bakar pada Kendaraan Roda Empat Menggunakan Sistem Siklus Rankine Organik

M. SABRI , SYAFRUDDIN HS , TAUFIQ BIN NUR , ZINGER AL IQRA , HANAFI HIDAYAT , FARID WIRAWAN

2018
Penelitian Kerjasama Antar Perguruan Tinggi

TEKNOLOGI PROSES PRODUKSI BIODIESEL DARI MINYAK NABATI MENGGUNAKAN INTENSIFIKASI KAVITASI REAKTOR

M. SABRI , TAUFIQ BIN NUR , ARRIDINA SUSAN SILITONGA

2018

Penelitian Dana Lokal Perguruan Tinggi

Analisa Model SUpply Chain Management Hydrogen dari Biomassa Menjadi Bahan Bakar Alternatif di Sumatera Utara

INDAH RIZKYA TARIGAN , RAHMI MEILINA SARI , TAUFIQ BIN NUR , WANDIKA A SYAHPUTRA , REGGY NOUVAN HR

Community Services

2026

Consultancy Service: Supervision and Monitoring of Solar Powered Water Pump Construction, kerja sama antara PT LAPI ITB dan PT Oxford Policy Management Indonesia(OPML) tahun 2026.

FAKHRUDDIN RIZAL BATUBARA , M RIDWAN ANAS , TAUFIQ BIN NUR

2026
Ipteks

Program Innovillage: KriPack: Sistem Pengemasan dan Pendataan Otomatis Berbasis IoT dan AI untuk Meningkatkan Efisiensi Produksi UMKM Keripik di Desa Kebun Lada

TAUFIQ BIN NUR , AZIZI FAUZAN SYAHMARA VEMPIDOU , SEPTIAWAN NUGRAHA , KRISNA ADITYA RAHMAN

2026

Audit Energi di PT Pertamina Patra Niaga Regional Sumbagut

HIMSAR AMBARITA , TAUFIQ BIN NUR , Raja Nauli Siregar , Ahmad Sofyan , Edy Yurisman

2024

Inovasi MesinProgram Innovillage 2024: Pembuat Bio-pellet berbasis Internet of Things (IoT) sebagai Solusi Pemanfaatan Limbah Pertanian di Desa Payaroba, Sumatera Utara

TAUFIQ BIN NUR , TEGAR USRI ANANDA , SEPTIAWAN NUGRAHA , MUHAMMAD IBRAHIM SYAH

2025

Pekerjaan Jasa Audit Energi dan Audit Air PT Pertamina Patra Niaga Regional Sumbagut.

NANDA SAVIRA ERSA , HIMSAR AMBARITA , ISRA SURYATI , TAUFIQ BIN NUR , Raja Nauli Siregar , Ahmad Sofyan , Edy Yurisman , Adi Putra Simajuntak

2024

Audit Energi dan Audit Air di PT Pertamina Patra Niaga, Lokasi Integrated Terminal (IT) Wayame Ambon, Maluku

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2024
Ipteks Bagi Inovasi Kreativitas Kampus

Pemanfaatan AI untuk Pembuatan Konten Dakwah Mahasiswa Akademi Dakwah Indonesia Sumut

IMAM BAGUS SUMANTRI , YUNILDA ANDRIYANI , TRI WIDYAWATI , TAUFIQ BIN NUR , SADDAM HAIQAL , SEPTIAWAN NUGRAHA , MUHAMMAD ROZAN FAWWAZ SYARIQ

2022
Ipteks Bagi Masyarakat

Peningkatan Rendemen Produksi Arang dan Asap Cair pada UMKM Baluse Kanira Nias Utara

ERNI MISRAN , DIANA CHALIL , SAHARMAN GEA , TAUFIQ BIN NUR

2022

Penguatan Kegiatan Penelitian dan Pengabdian Masyarakat di Universitas

Nias Raya Teluk Dalam

HIMSAR AMBARITA , SAHARMAN GEA , ELISA JULIANTI , TAUFIQ BIN NUR

2021
Ipteks Bagi Inovasi Kreativitas Kampus

PENINGKATAN KEMAMPUAN MELAKUKAN PENELITIAN BERBASIS KEARIFAN LOKAL

SAHARMAN GEA , T ALIEF ATHTHORICK , TAUFIQ BIN NUR

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2026
Paten nasional

Sistem Pirolisis Biomassa Pengolah Limbah Industri Perkebunan Menjadi Biochar Sebagai Pupuk Organik Pembenah Tanah

TAUFIQ BIN NUR , RULIANDA PURNOMO WIBOWO , MARIANI BR SEMBIRING

2025
Hak cipta nasional

Cara Pemanfaatan Artificial Intelligence Untuk Pembuatan Konten Video

YUNILDA ANDRIYANI , TRI WIDYAWATI , TAUFIQ BIN NUR , IMAM BAGUS SUMANTRI , REZKA ZUHRA MAULIDA , TARISA OLIVIA , MUHAMMAD ROZAN FAWWAZ SYARIQ , SEPTIAWAN NUGRAHA , SADDAM HAIQAL

2023
Paten nasional

Metode Produksi Bioetanol dari Enceng Gondok

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2022
Paten nasional

Sistem Pengukuran Pemakaian Energi Listrik Secara Daring Dengan Algoritma Pengaturan Ulang Waktu Otomatis

TAUFIQ BIN NUR