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Publications

2024

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

2020

Tulisan ilmiah

Simulation Analysis of Polymer Electrolyte Membrane Fuel Cell Using Aspen Plus

TAUFIQ BIN NUR , TULUS BURHANUDDIN SITORUS

2012

Tulisan ilmiah

Feasibility Study of SOFC as Heat and Power for Buildings

TAUFIQ BIN NUR

2018

Tulisan ilmiah

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

TAUFIQ BIN NUR

2015

Tulisan ilmiah

Sensitivity analysis for the efficiency improvement of a light integrated gasification fuel cell power plant

TAUFIQ BIN NUR

2020

Prosiding seminar internasional

Performance Gasoline Generator Engine Fueled Liquid Petroleum Gas

TULUS BURHANUDDIN SITORUS , 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

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

2025

Prosiding seminar internasional

Evaporator design for the hydrogen-rich syngas production process from palm oil mill solid waste using steam methane reformer

TAUFIQ BIN NUR , ARIF NURYAWAN , RULIANDA PURNOMO WIBOWO

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

2018

Prosiding seminar internasional

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

TAUFIQ BIN NUR

2015

Tulisan ilmiah

UJI PERFORMANSI TURBIN ANGIN PROFIL SUDU NACA 0018 SEBAGAI PENGGERAK AERATOR DI TAMBAK UDANG

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

2022

Jurnal internasional bereputasi

Model combination of biodigester and composter

TAUFIQ BIN NUR , IRVAN , DELVIAN

2024

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

2015

Jurnal internasional bereputasi

Conceptual design of light integrated gasification fuel cell based on thermodynamic process simulation

TAUFIQ BIN NUR

2024

Jurnal internasional bereputasi

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

TAUFIQ BIN NUR

2024

Prosiding seminar internasional

Aspen Plus simulation analysis of hydrogen production from biomass pyrolysis

integrated with steam methane reformer unit

Syafie Syam , 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

2025

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

2024

Prosiding seminar internasional

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

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

2007

Jurnal internasional bereputasi

Exergy analysis of evaporative cooling for reducing energy use in a Malaysian building

TAUFIQ BIN NUR

2023

Jurnal internasional bereputasi

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

TAUFIQ BIN NUR , INDRA SURYA , ARDIAN RAHMAT IRAWAN SINAGA

2019

Tulisan ilmiah

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

TAUFIQ BIN NUR

2023

Jurnal internasional bereputasi

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

INDRA SURYA , ARDIAN RAHMAT IRAWAN SINAGA , TAUFIQ BIN NUR

2025

Jurnal internasional bereputasi

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

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

2021

Prosiding seminar internasional

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

TAUFIQ BIN NUR

2021

Tulisan ilmiah

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

RULIANDA PURNOMO WIBOWO , 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

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

2020

Tulisan ilmiah

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

TAUFIQ BIN NUR

2018

Tulisan ilmiah

Integrated biomass pyrolysis with organic Rankine cycle for power generation

TAUFIQ BIN NUR

2021

Tulisan ilmiah

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

TAUFIQ BIN NUR

2021

Prosiding seminar internasional

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

HIMSAR AMBARITA , TAUFIQ BIN NUR

2021

Prosiding seminar internasional

Design and analysis of biomass pyrolysis briquette molding machine

TAUFIQ BIN NUR , M. SABRI

2025

Prosiding seminar internasional

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

RAFSANZANI PANE , TAUFIQ BIN NUR

2018

Tulisan ilmiah

Exergy analysis of biomass organic Rankine cycle for power generation

TAUFIQ BIN NUR

2020

Prosiding seminar internasional

Simulation Analysis of Polymer Electrolyte Membrane Fuel Cell Using Aspen Plus

TULUS BURHANUDDIN SITORUS , TAUFIQ BIN NUR

2007

Jurnal internasional bereputasi

Second law analysis for optimal thermal design of radial fin geometry by convection

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

2006

Tulisan ilmiah

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

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

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 HASIHOLOAN NAPITUPU

2023

Prosiding seminar internasional

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

TAUFIQ BIN NUR , DELVIAN , IRVAN

2024

Prosiding seminar internasional

Physical, chemical, and thermal properties of branches mangrove wood of *Bruguiera gymnorhiza* during conversion into charcoal and charcoal briquette

TAUFIQ BIN NUR , ARIF NURYAWAN

2020

Prosiding seminar internasional

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

TAUFIQ BIN NUR , HIM SAR AMBARITA

2024

Jurnal internasional bereputasi

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

TAUFIQ BIN NUR , ARRIDINA SUSAN SILITONGA , ABDI HANRA SEBAYANG , BELA NURULITA , Nurin Wahidah Mohd Zulkiffi

2014

Prosiding seminar internasional

Thermodynamic Modeling and Parametric Study of an Integrated Gasification Fuel Cell Combined Cycle (IGFC)

TAUFIQ BIN NUR

2021

Tulisan ilmiah

Design and analysis of biomass pyrolysis briquette molding machine

RULIANDA PURNOMO WIBOWO , TAUFIQ BIN NUR

2007

Jurnal internasional bereputasi

Correlation between thermal conductivity and the thickness of selected insulation materials for building wall

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

Tulisan ilmiah

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

TAUFIQ BIN NUR

2015

Tulisan ilmiah

PENGUJIAN PERFORMANSI MOTOR DIESEL BERBAHAN BAKAR BIODIESEL DENGAN BAHAN BAKU MINYAK GORENG BEKAS DARI RUMAH TANGGA

TAUFIQ BIN NUR

2021

Prosiding seminar internasional

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

TAUFIQ BIN NUR

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 HASIHOLOAN NAPITUPU , MUNAWAR ALFANSURY SIREGAR

2020

Prosiding seminar internasional

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

TAUFIQ BIN NUR , RAHMI MEILINA SARI , INDAH RIZKYA TARIGAN

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

2019

Jurnal nasional

RANCANG BANGUN SOLAR COLD STORAGE DENGAN KAPASITAS 10 KILOGRAM

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

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

2024

Prosiding seminar internasional

Physical, chemical, and thermal properties of branches mangrove wood of Bruguiera gymnorhiza during conversion into charcoal and charcoal briquette

ARIF NURYAWAN , IWAN RISNASARI , TAUFIQ BIN NUR , Jhonny Simatupang , Widya Patriasari

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

2025
Prosiding seminar internasional

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

TULUS BURHANUDDIN SITORUS , HIMSAR AMBARITA , TAUFIQ BIN NUR

2025
Jurnal internasional bereputasi

Physical, chemical, mechanical, and thermal properties of charcoal briquettes produced from mangrove branch wood

SENTAGI SESOTYA UTAMI , ARIF NURYAWAN , IWAN RISNASARI , TAUFIQ BIN NUR , MOHAMMAD BASYUNI , HARDIANSYAH TAMBUNAN , Jhonny Simatupang , Widya Fatriasari , Bora Jeong

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

2020
Tulisan ilmiah

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

TAUFIQ BIN NUR , HIMSAR AMBARITA

2022
Artikel ilmiah

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

INDRA SURYA , TAUFIQ BIN NUR

2023
Jurnal internasional bereputasi

Model combination of biodigester and composter

TAUFIQ BIN NUR , IRVAN , DELVIAN

2020
Prosiding seminar internasional

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

FAREL HASIROLAN NAPITUPU , TAUFIQ BIN NUR

2022
Prosiding seminar internasional

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

TAUFIQ BIN NUR

2021
Tulisan ilmiah

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

TAUFIQ BIN NUR

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

2014
Tulisan ilmiah

Thermodynamic Modeling and Parametric Study of an Integrated Gasification Fuel Cell Combined Cycle (IGFC)

TAUFIQ BIN NUR

2024
Prosiding seminar internasional

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

TAUFIQ BIN NUR

2015
Jurnal nasional

Pengaruh Jarak Sudu Terhadap Prestasi Turbin Vortex Berpenampang Lingkaran Dengan Diameter Sudu 46 cm

HIMSAR AMBARITA , MAHADI , TAUFIQ BIN NUR , TULUS BURHANUDDIN SITORUS

2019
Prosiding seminar internasional

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

TAUFIQ BIN NUR

2021
Tulisan ilmiah

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

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

2024
Jurnal internasional bereputasi

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

Syafie Syam , TAUFIQ BIN NUR

2024
Prosiding seminar internasional

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

RULIANDA PURNOMO WIBOWO , MARIANI BR SEMBIRING , TAUFIQ BIN NUR

2022
Prosiding seminar internasional

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

INDRA SURYA , TAUFIQ BIN NUR

2021
Prosiding seminar internasional

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

TAUFIQ BIN NUR

Researches

2018
Penelitian Unggulan Perguruan Tinggi

Pemanfaatan Syngas Pirolisis Biomassa melalui Reformer untuk Solid Oxide Fuel Cell (SOFC) Sebagai Penghasil Energi Listrik

NURHAYATI , RULIANDA PURNOMO WIBOWO , TAUFIQ BIN NUR

2024

Penelitian Strategis Nasional

Sistem Integrasi Pirolisis dengan Gasifikasi untuk Konversi Biomassa Limbah Perkebunan Menjadi Syngas yang kaya Hidrogen (hydrogen-rich syngas)

ARIF NURYAWAN , RULIANDA PURNOMO WIBOWO , TAUFIQ BIN NUR , MUHAMMAD ZEIN , MUHAMMAD IBRAHIM SYAH , RIDHO FINDONTA TARIGAN , TEGAR USRI ANANDA

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

2025

Ipteks

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

TAUFIQ BIN NUR , MUHAMMAD JEFFRY MACHMURIZA , JUNI IHWANDA , Prof. Dr. Ir. Syafie 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

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

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

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

2025

Ipteks

Gasifikasi Biomassa Terintegrasi Pirolisis, dan Sel Bahan Bakar Membran Elektrolit Polimer (PEMFC) untuk Produksi Hidrogen dan Listrik

M. SABRI , ARIF NURYAWAN , RULIANDA PURNOMO WIBOWO , TAUFIQ BIN NUR , AZIZI FAUZAN SYAHMARA VEMPIDOU , SEPTIAWAN NUGRAHA , CUT SITI NAILA FAKHIRA , KRISNA ADITYA RAHMAN , Syafie Syam

2026

Penelitian Fundamental

Analisis Simulasi Performansi Sistem Gasifikasi Biomassa Limbah Kopi terintegrasi Solid Oxide Fuel Cell (SOFC) untuk Konversi Biomassa menjadi Energi Listrik

AHMAD ZIKRI , TAUFIQ BIN NUR , ARIEF RIZQY , Muhammad Ibrahim Syah, ST. , Prof. Dr. Ir. Syafie Syamaun, ST., DEA.

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 , REGGY NOUVAN HR , WANDIKA A SYAHPUTRA

Community Services

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 , MUHAMMAD IBRAHIM SYAH , TEGAR USRI ANANDA , SEPTIAWAN NUGRAHA

2024

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

HIMSAR AMBARITA , TAUFIQ BIN NUR , Edy Yurisman , Farid Wirawan , Adi Putra Simajuntak , Ahmad Sopyan

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 , SEPTIAWAN NUGRAHA , AZIZI FAUZAN SYAHMARA VEMPIDOU , KRISNA ADITYA RAHMAN

2025

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

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

2024

Audit Energi dan Audit Air PT Pertamina Patra Niaga Regional Sumatera Utara

NANDA SAVIRA ERSA , HIMSAR AMBARITA , ISRA SURYATI , TAUFIQ BIN NUR , Ahmad Sopyan , Rahmat Kholis Harahap , Edy Yurisman , Rizal Budiman , Adi Putra Simajuntak , Farid Wirawan , Raja Nauli Siregar

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2021

Paten nasional

Sistem Pirolisis Biomassa Padat Untuk Menghasilkan Bioarang, Gas Sintetis, dan Asap Cair (Bio-Oil) Sebagai Bahan Bakar

NURHAYATI , RULIANDA PURNOMO WIBOWO , TAUFIQ BIN NUR

2021

Paten nasional

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

TAUFIQ BIN NUR

2021

Paten nasional

Metode Produksi Bioetanol dari Enceng Gondok

RULIANDA PURNOMO WIBOWO , INDRA SURYA , TAUFIQ BIN NUR
