Prof.Dr. Drs. Syahrul Humaidi, M.Sc.

Dosen Program Studi S3 Fisika
Fakultas Matematika Dan Ilmu Pengetahuan Alam
Universitas Sumatera Utara

syahrul1@usu.ac.id

Ruang Ketua Prodi S2/S3 Ilmu Fisika, FMIPA USU

fmipa.usu.ac.id/id/dosen/syahrul-humaidi

Prof. Dr. Drs. Syahrul Humaidi, M.Sc dilahirkan di Rantau Prapat pada tanggal 17 Mei 1965 dan merupakan seorang dosen Fisika. Beliau juga menjabat Ketua Program Studi Magister Fisika dan Program Studi Doktor Ilmu Fisika di Universitas Sumatera Utara. Beliau menyelesaikan pendidikan terakhirnya, yakni S3 Fisika, di USU pada tahun 2017.

Publications

2026
Jurnal internasional bereputasi

Investigation of Mn-Modified Bimetallic ZIF-67 Structures as Supercapacitors

ERNA FRIDA , ADY FRENLY SIMANULLANG , SYAHRUL HUMAIDI , TULUS NA DUMA , Ni Luh Wulan Septiani

2026
Jurnal internasional bereputasi

Sm2O3-induced superconductivity enhancements in bulk Y-123 ceramics synthesized via a novel modified thermal decomposition method

SYAHRUL HUMAIDI

2026
Jurnal internasional bereputasi

Design and Development of a Water Flow Monitoring Device using Mitsubishi FX3U-14MT PLC

DOLI BONARDO , Dr. KERISTA TARIGAN, M.Eng.Sc. , HERRI TRISNA FRIANTO , SYAHRUL HUMAIDI , DADAN RAMDAN , FAUZAN AMRI

2026
Buku referensi

Robotika dan Otomasi Pintar (Sistem Kontrol Berbasis AI)

DOLI BONARDO , HERRI TRISNA FRIANTO , SYAHRUL HUMAIDI

2026
Prosiding seminar internasional

Optimization synthesis and characterization of silica nanoparticles (SNPs) from rice husk ash for sustainable environmental material

TIMBANGEN SEMBIRING , SUSILAWATI , PERDINAN SINUHAJI , ERNA FRIDA , SYAHRUL HUMAIDI , HARIYATI LUBIS , ISMAIL AB

2025
Jurnal internasional bereputasi

4Frequency response-based optimization of PID controllers for enhanced fluid control system performance

SYAHRUL HUMAIDI

2025
Jurnal internasional bereputasi

Frequency response-based optimization of PID controllers for enhanced fluid control system performance

DOLI BONARDO , HERRI TRISNA FRIANTO , SYAHRUL HUMAIDI , Dr. KERISTA TARIGAN, M.Eng.Sc. , DADAN RAMDAN

2025
Jurnal internasional bereputasi

The Influence of Yttrium Doping on The Microstructure and Magnetic Properties of Barium Hexaferrite

SYAHRUL HUMAIDI

2025
Jurnal internasional bereputasi

Exploring the impact of ambient annealing on the superconducting properties of Y-123 with marine waste-derived chitosan additives

SYAHRUL HUMAIDI

2025
Prosiding seminar internasional

Preparation and characterization of barium hexaferrite via the solid-state reaction method

SYAHRUL HUMAIDI

2025
Jurnal internasional bereputasi

Recent advances in silver oxide-based superconductors: characterization, challenges and theoretical progress

SYAHRUL HUMAIDI

2025
Jurnal internasional bereputasi

Polyethylene glycol-magnetite composite encapsulated concrete as a thermal energy storage

SYAHRUL HUMAIDI

2025
Jurnal internasional bereputasi

Thermal Characterization on Asphalt Modification with Polyethylene and Polyethylene Grafted Maleic Anhydride

SYAHRUL HUMAIDI

2025
Jurnal internasional bereputasi

Thermal Characterization on Asphalt Modification with Polyethylene and Polyethylene Grafted Maleic Anhydride

WINSYAH PUTRA RITONGA , SYAHRUL HUMAIDI , MOTLAN , EDDIYANTO

2025
Jurnal internasional bereputasi

Comparing study of electrical transport properties of bulk Y-123 synthesized by modified wet and dry synthesis methods

SYAHRUL HUMAIDI

2025
Jurnal internasional bereputasi

Overcurrent effects on copper insulated PVC cables and fire resistance via thermal imaging and macrostructure analysis

SYAHRUL HUMAIDI

2025
Jurnal internasional bereputasi

Comparison of the Effectiveness of the Coprecipitation Method for SiO_2 Extraction from Natural Pahae Zeolite and Palm Oil Boiler Ash

ERNA FRIDA , FYNNISA. Z , SUSILAWATI , EVA MARLINA GINTING , SYAHRUL HUMAIDI , ING JOHANNES TARIGAN , FYNNISA Z

2025
Jurnal internasional bereputasi

ENCAPSULATION OF PHASE CHANGE MATERIAL–MAGNETITE (Fe_3O_4) COMPOSITE IN NOVEL COPPER TUBE CONFIGURATION (VERTICAL AND HORIZONTAL) FOR THERMAL STORAGE APPLICATION

SYAHRUL HUMAIDI

2025
Prosiding seminar internasional

Paraffin and magnetite composite for thermal management applications

SYAHRUL HUMAIDI

2025
Jurnal internasional

Characteristics of Rainfall Influence Indian Ocean Dipole (IOD) and Madden Julian Oscillation (MJO) Phenomena Based on Machine Learning in Deli Serdang Region

MARZUKI SINAMBELA , SYAHRUL HUMAIDI

2025
Prosiding seminar internasional

Convective clouds classification based on weather forecast for air traffic flow management in Kualanamu Airport

MARZUKI SINAMBELA , SYAHRUL HUMAIDI , SUNARDI

2025
Prosiding seminar internasional

Convective clouds classification based on weather forecast for air traffic flow management in Kualanamu Airport

SUNARDI , SYAHRUL HUMAIDI , MARHAPOSAN SITUMORANG , MARZUKI SINAMBELA

2025
Jurnal internasional bereputasi

Phase formation, microstructural and superconducting properties of YBCO added Ca-compounds extraction eggshells

SYAHRUL HUMAIDI

2025
Jurnal internasional bereputasi

Study of Crystal Structure, Lattice Strain, and Elemental Content of Natural Iron Sand Nanoparticles Synthesized by the Coprecipitation Method

SYAHRUL HUMAIDI

2024
Tulisan ilmiah

Karakteristik dan Klasifikasi Awan Konvektif Menggunakan Satelit Himawari dengan Pendekatan Model Convolution Neural Network untuk Mitigasi Keselamatan Penerbangan di WilayahÂ ...

MARZUKI SINAMBELA , SYAHRUL HUMAIDI , SUNARDI

2024
Jurnal internasional bereputasi

Enhancing superconducting properties of YBa2Cu3O7- δ through Nd2O3 addition prepared using modified thermal decomposition method

SYAHRUL HUMAIDI

2024
Prosiding seminar internasional

Application of Convolutional Neural Networks (CNN) for Optimizing Route Changes Based on Dynamic Weather Conditions and Travel Time

SYAHRUL HUMAIDI

2024
Prosiding seminar internasional

Aplication of Convolutional Neural Networks for optimizing route changes bast on Dynamic weather conditions and travel time

SUNARDI , MARZUKI SINAMBELA , SYAHRUL HUMAIDI , MARHAPOSAN SITUMORANG

2024
Jurnal internasional bereputasi

Adsorption Mechanism of Heavy Metals Using Activated Carbon Derived from

Hydrilla Verticillata

ERNA FRIDA , SYAHRUL HUMAIDI , SUSILAWATI

2024
Jurnal internasional bereputasi

Adsorption Mechanism of Heavy Metals Using Activated Carbon Derived from Hydrilla Verticillata.

ENDA RASILTA BR. TARIGAN , ERNA FRIDA , SYAHRUL HUMAIDI , SUSILAWATI

2024
Jurnal internasional bereputasi

DEVELOPMENT OF A MATHEMATICAL MODEL FOR MANAGING SCHEDULE DELAYS IN AIR TRAFFIC OPERATIONS

SYAHRUL HUMAIDI

2024
Jurnal internasional

Development of a mathematical model for managing schedule delays in air traffic operations

SUNARDI , SYAHRUL HUMAIDI , MARHAPOSAN SITUMORANG , MARZUKI SINAMBELA

2024
Jurnal internasional bereputasi

Spatial evaluation rainfall estimation on weather radar using Marshall–Palmer reflectivity–rainfall rate in Banten

MARZUKI SINAMBELA , SYAHRUL HUMAIDI , HARTANTO

2024
Prosiding seminar internasional

Effect of Sintering Temperature on AC Susceptibility and Superconducting Properties of (Bi1.6Pb0.4)Sr2CaCu2O8 Superconductor

SYAHRUL HUMAIDI

2024
Jurnal internasional bereputasi

UV Exposure Time Optimization for Enhanced Conversion, Hardness, and Flexural Strength in UDMA/TEG-DMA Composite Resins

SYAHRUL HUMAIDI

2024
Jurnal internasional bereputasi

Spatial evaluation rainfall estimation on weather radar using Marshall–Palmer reflectivity–rainfall rate in Banten

SYAHRUL HUMAIDI

2024
Jurnal internasional bereputasi

Enhanced Cancer Biomarker Detection using Fe3O4 Magnetic Nanoparticles: Synthesis, Surface Modifications and Diagnostic Applications: A Review

SYAHRUL HUMAIDI

2024
Jurnal nasional terakreditasi

Distance Measurement of Low Reflectance Objects Using Indirect Time of Flight LiDAR

SYAHRUL HUMAIDI

2024
Prosiding seminar internasional

Application of Convolutional Neural Networks (CNN) for Optimizing Route Changes Based on Dynamic Weather Conditions and Travel Time

SYAHRUL HUMAIDI

2024
Jurnal internasional bereputasi

Fluctuation induces conductivity and microstructural studies in Y-123: Effect

of CaO inclusion

SYAHRUL HUMAIDI

2024
Jurnal internasional bereputasi

Study and characterization of BaFe<inf>12</inf>O<inf>19</inf>/PVDF composites as electrode materials for supercapacitors

SYAHRUL HUMAIDI

2024
Prosiding seminar internasional

Effect of graphite as filler on conductive polymer composites based on corn starch and liquid natural rubber on its electric conductivity properties

SYAHRUL HUMAIDI

2024
Prosiding seminar internasional

Thermoelectric material based on ti doped CuCrO2 by sol-gel method

NONI SURTIANA SILALAHI , SYAHRUL HUMAIDI

2024
Jurnal internasional bereputasi

Microstructural and excess conductivity properties of Y-123: effect of organic polymer chitosan inclusion

FITRI KHOERUNNISA , SYAHRUL HUMAIDI

2024
Jurnal internasional bereputasi

Microstructural and excess conductivity properties of Y-123: effect of organic polymer chitosan inclusion

SYAHRUL HUMAIDI

2024
Prosiding seminar internasional

Effect of BaCO3 addition on critical temperature of Bi-Pb-Sr- Ca-Cu-O superconductor

SYAHRUL HUMAIDI

2024
Prosiding seminar internasional

Preparation of Hydrilla Verticillata activated carbon adsorbent for remediation of wastewater containing the active metal chromium

ENDA RASILTA BR. TARIGAN , ERNA FRIDA , SYAHRUL HUMAIDI , SUSILAWATI

2024
Prosiding seminar internasional

Preparation of hydrilla verticillata activated carbon adsorbent for remediation of wastewater containing the active metal chromium

ERNA FRIDA , SYAHRUL HUMAIDI , SUSILAWATI

2024
Jurnal nasional terakreditasi

Analysis of Strong Wind Characteristics Using Doppler Weather Radar over Kualanamu Airport Indonesia

YAHYA DARMAWAN , SYAHRUL HUMAIDI , ELLYA VERONIKA IRIANI MANURUNG

2024
Jurnal nasional terakreditasi

Electrochemical Performance of Na2Mn3O7 as a Cathode Material in Sodium-Ion Batteries Using the Precipitation Method with Ethylene Glycol Chelating Agent

SYAHRUL HUMAIDI

2024
Prosiding seminar internasional

Effect of Co doping on the synthesis of CuCrO<inf>2</inf>materials using

solid-state method

SYAHRUL HUMAIDI

2024
Prosiding seminar internasional

Evaluation of Meteorological Radar Precipitation Forecast in Banten

SYAHRUL HUMAIDI

2024
Prosiding seminar internasional

Synthesis and characterization of CuCrO<inf>2</inf>with addition of CaCO<inf>3</inf>using solid state reaction and sol-gel method

SYAHRUL HUMAIDI

2024
Jurnal internasional bereputasi

Effect of Co Doping on the Synthesis of CuCrO2 Materials Using Solid-State Method

SYAHRUL HUMAIDI

2024
Prosiding seminar internasional

Synthesis and characterization of CuCrO2 with addition of CaCO3 using solid state reaction and sol-gel method

SYAHRUL HUMAIDI

2024
Prosiding seminar internasional

Investigating the Impact of Polyvinyl Alcohol Addition on the Thermal Behavior and Chemical Structure of Electrospun Cellulose Nanofibers

TENGKU ADETYA NURHALIZA , SYAHRUL HUMAIDI

2024
Jurnal internasional bereputasi

The effectiveness of activated carbon from nutmeg shell in reducing ammonia (NH3) levels in fish pond water

SYAHRUL HUMAIDI

2024
Jurnal internasional bereputasi

Palm Oil Fuel Ash and Fly Ash for a Partial Replacement of Cement in High-Quality,Environmentally Friendly Mortar as a Solution to Industrial Wast

SYAHRUL HUMAIDI

2024
Prosiding seminar internasional

Comprehensive Analysis of Dry Material Content, Moisture Content, and FTIR Spectroscopy in Durian Peel

SYAHRUL HUMAIDI

2024
Jurnal internasional bereputasi

Palm Oil Fuel Ash and Fly Ash for a Partial Replacement of Cement in High-Quality, Environmentally Friendly Mortar as a Solution to Industrial Waste

SYAHRUL HUMAIDI

2024
Jurnal internasional

DEVELOPMENT OF A MATHEMATICAL MODEL FOR MANAGING SCHEDULE DELAYS IN AIR TRAFFIC OPERATIONS

MARZUKI SINAMBELA , SYAHRUL HUMAIDI , SUNARDI

2024
Jurnal internasional bereputasi

Spatial evaluation rainfall estimation on weather radar using Marshallâ Palmer reflectivityâ rainfall rate in Banten

MARZUKI SINAMBELA , SYAHRUL HUMAIDI , HARTANTO

2023
Prosiding seminar internasional

Experimental Study on Capillarity and Thermal of Metal Foam as the Wick Structure in Heat Pipe Application

SYAHRUL HUMAIDI

2023
Prosiding seminar internasional

Experimental study on capillarity and thermal of metal foam as the wick structure in heat pipe application

SYAHRUL HUMAIDI

2023
Prosiding seminar internasional

Response of Geologic Units to The Ground Parameters of Tarutung Earthquake 2022 Mw 5.8 : A Preliminary Study

SYAHRUL HUMAIDI

2023
Jurnal internasional bereputasi

Effect of calcination frequency on the thermoelectric properties of Ti doped CuCrO2by solid state method

SYAHRUL HUMAIDI

2023
Jurnal internasional bereputasi

ANALYSIS OF MINERAL CONTENT AND MAGNETIC PROPERTIES OF IRON SAND OF BAH BOLON SIMALUNGUN RIVER, NORTH SUMETERA

SYAHRUL HUMAIDI

2023
Jurnal internasional bereputasi

Annealing temperature effects on the size and band gap of ZnS quantum dots fabricated by co-precipitation technique without capping agent

SYAHRUL HUMAIDI

2023
Jurnal internasional bereputasi

INDENTIFICATION OF CHICKEN IN CHICKEN, BEEF AND LAMB EXPERIMENTS USING CONDUCTING POLYMER SENSOR SERIES AND KOHONEN ALGORITHM METHOD

MARHAPOSAN SITUMORANG , BENRAD EDWIN SIMANJUNTAK , Marzuki Sinambela , SYAHRUL HUMAIDI

2023
Jurnal nasional terakreditasi

Characterization of Meteorological Drought Using Standardized Precipitation Index and Standardized Precipitation Evapotranspiration Index Methods in North Sumatera

FANLY PARHIMPUNAN MANULLANG , SYAHRUL HUMAIDI , DEASSY EIRENE DIANA DOLOKSARIBU , Dr. KERISTA TARIGAN, M.Eng.Sc. , MARHAPOSAN SITUMORANG , YAHYA DARMAWAN

2023
Jurnal internasional bereputasi

CHARACTERIZATION OF ASPHALT MODIFICATION USING GROUND RUBBER AND REACTIVE RUBBER NR-g-MA AS COMPATIBILIZER

SYAHRUL HUMAIDI

2023
Jurnal nasional terakreditasi

Synthesis and Electrochemical Characterization of Sodium-Ion Battery Anode Carbon Biomassa Based on Sunflower Seed Husk (Helianthus annuus)

DINDA AMILIA , SYAHRUL HUMAIDI

2023

Prosiding seminar internasional

Synthesis and characterization of nanocomposites Fe3O4-ZnO

JULIANDI SIREGAR , SYAHRUL HUMAIDI , KERISTA SEBAYANG , ZURIAH SITORUS , BRIAN YULIARTO

2023
Prosiding seminar internasional

Preparation and characterization of liquid natural rubber modified asphalt by using wet mixing method

SYAHRUL HUMAIDI

2023
Prosiding seminar internasional

Preparation and characterization of liquid natural rubber modified asphalt by using wet mixing method

SYAHRUL HUMAIDI

2023
Jurnal internasional bereputasi

Optimization of Palm Oil Boiler Ash Biomass Waste as a Source of Silica with Various Preparation Methods

SYAHRUL HUMAIDI , ERNA FRIDA , PERDINAN SINUHAJI

2023
Jurnal nasional terakreditasi

1-Dimensional Model of Seismic Velocity after Tarutung Earthquake 1 October 2022 Mw 5.8

SYAHRUL HUMAIDI

2023
Jurnal nasional terakreditasi

Faulting Mechanism of Tarutung Earthquake 2022 Mw 5.8Using Moment Tensor Inversion:A Preliminary Study

SYAHRUL HUMAIDI , ENDAH PUSPITA SARI

2023
Jurnal internasional bereputasi

Annealing temperature efects on the size and band gap of ZnS quantum dots fabricated by coâ€‘precipitation technique without capping agent

SYAHRUL HUMAIDI

2023
Prosiding seminar internasional

Synthesis and characterization of WO3 sensitive layers for NO2 gas sensor application

SYAHRUL HUMAIDI

2023
Artikel ilmiah

Manufacture of Lithium Lanthanum Titanate Active Material as a Lithium-Ion Capacitor Anode Using Solid-State Reaction Methods

SYAHRUL HUMAIDI

2023
Prosiding seminar internasional

Synthesis And Characterization Of Nanocomposites Fe3O4- ZnO

SYAHRUL HUMAIDI

2023
Jurnal nasional terakreditasi

Rainfall Characteristics In Medan City With Pearson Correlation Analysis (Case Study Of February 27, 2022)

SYAHRUL HUMAIDI , ENDAH PARAMITA

2023
Jurnal internasional bereputasi

Effect of surface coating on changes in mass and heat rate on hydrophobic

layer coated metal foam

SYAHRUL HUMAIDI

2023
Jurnal nasional terakreditasi

Synthesis and Characterization of Cu-Cr-O Phase with H2SO4 Solvent Using Sol-Gel Method

YUSRIDAH RANGKUTI , SYAHRUL HUMAIDI

2023
Jurnal nasional

Characterization of CuCrO2 Material Produced Using Sol-Gel Method

SYAHRUL HUMAIDI

2023
Jurnal internasional bereputasi

EFFECT OF SURFACE COATING ON CHANGES IN MASS AND HEAT RATE ON HYDROPHOBIC LAYER COATED METAL FOAM

SYAHRUL HUMAIDI

2023
Jurnal internasional bereputasi

Enhanced superconducting transition temperature for Cr-substituted Tl2Ba2CaCu2O8-Î´

SYAHRUL HUMAIDI

2023
Jurnal internasional bereputasi

Cyclic Oxidation Resistance of MoSi2 Added FeCrAlTiY Coatings on ST41 Steel at 700oC Prepared by a Flame Spraying Technique

SYAHRUL HUMAIDI

2022
Jurnal internasional bereputasi

AC Susceptibility and Electrical Properties of Ta-Substituted (TlTa)SrCaCuO Superconductor

SYAHRUL HUMAIDI

2022
Prosiding seminar internasional

Effect of post-consumer plastic polyethylene and grafted maleic anhydride on polyethylene (PE-g-MA) additive on the properties of asphalt binder

SYAHRUL HUMAIDI

2022
Jurnal internasional bereputasi

Physical and Chemical Properties of Modified Asphalt with Post Consumer Polyethylene in the Presence of Reactive Polymer

SYAHRUL HUMAIDI

2022
Jurnal internasional bereputasi

Surface treatment on metal foam wick of a ferrofluid heat pipe

SYAHRUL HUMAIDI

2022
Jurnal internasional bereputasi

Superhydrophobic coated metal foam for PEM fuel cell application

SYAHRUL HUMAIDI

2022
Prosiding seminar internasional

The influence of carbon addition on the superconducting properties of BPSCCO

SYAHRUL HUMAIDI , EKA FEBY RONAULI LUBIS

2022
Prosiding seminar internasional

Superconducting Properties of Ta Substituted (Tl1- xTax)(BaSr)CaCu2O7

SYAHRUL HUMAIDI

2022
Prosiding seminar internasional

Superconducting Properties of Ta Substituted (Tl1- xTax)(BaSr)CaCu2O7

SYAHRUL HUMAIDI

2022
Jurnal internasional bereputasi

Effect of surface area on electrical properties of NiCo2O4-reduced graphene oxide nanocomposites for supercapacitor electrodes applications

SYAHRUL HUMAIDI

2022
Prosiding seminar internasional

Synthesis of Carbon from Yellowfin Tuna Fishbone to Remove Iron (Fe) Metal in Well Water from Bandar Setia

SYAHRUL HUMAIDI

2022
Jurnal nasional

Manufacture of Solid Polymer Electrolyte (SPE) Based on PVDF HFP-LiBOB

SYAHRUL HUMAIDI

Researches

2024
Kerjasama Luar Negeri dan Publikasi Internasional

Analysis of Current Density and Critical Temperature Fluctuation on High Temperature Superconductor Based Tl-2212

SYAHRUL HUMAIDI

2022
Penelitian Tim Pasca Sarjana

Pengaruh Penambahan MnO2 terhadap Peningkatan Temperatur Kritis Superkonduktor Suhu Tinggi CuCrO2

SYAHRUL HUMAIDI , NURUL MAULIDA RAHMAHYANI NST

2022
Penelitian Disertasi Doktor

Modifikasi Aspal Dengan Karet Ban Bekas Menggunakan Bahan Penyerasi Karet Alam Fungsional Maleat Anhidrat NR-g-MA.

SYAHRUL HUMAIDI , WINSYAHPUTRA RITONGA

2022
Kerjasama Luar Negeri dan Publikasi Internasional

WCU Modiifikasi Proses Sintering Terhadap Peningkatan Temperatur Kritis Superkonduktor Suhu Tinggi Bi1.6Pb0,4 Sr2Ca1-x Mx Cu2O8 (M=Ce,Na,Mg)

SYAHRUL HUMAIDI

2022
Penelitian Tim Pasca Sarjana

Pembuatan Nanopartikel Magnesium Ferrite Sebagai Penyerap Limbah Ion Logam Berat Timbal dan Tembaga dengan Metode Co-Presipitasi

SYAHRUL HUMAIDI , SHIAMNY NUR KHAIR TARIGAN

2022
Penelitian Disertasi Doktor

Pendekatan Model Artificial Neural Network Menggunakan Satelit Himawari 8 untuk Meningkatkan Keamanan Jalur Penerbangan di Sumatera Utara

SYAHRUL HUMAIDI , SUNARDI

2021
Penelitian Disertasi Doktor

PREPARASI DAN KARAKTERISASI KAIN DENGAN SIFAT SELFCLEANING DAN ANTIBAKTERI MENGGUNAKAN NANOKOMPOSIT ABU BOILER KELAPA SAWIT DAN TITANIUM DIOKSIDA SERTA KITOSAN

SYAHRUL HUMAIDI , ERNA FRIDA , PERDINAN SINUHAJI

2020
Penelitian Tim Pasca Sarjana

Pengaruh Waktu Milling (Milling Time) dan Penambahan FeMn terhadap Kekerasan dan Sifat Magnet Barium Heksaferit

SYAHRUL HUMAIDI , LIDIA PUSPITA SARI SAGALA

2020
Penelitian Tim Pasca Sarjana

Pembuatan Sensor Gas Beracun (Toxid) Berbahan Dasar Timah Oksida (SnO2)

SYAHRUL HUMAIDI , DOLI BONARDO

2020
Penelitian Tim Pasca Sarjana

Pembuatan Sensor Gas Beracun (Toxid) Berbahan Dasar Timah Oksida (SnO2)

SYAHRUL HUMAIDI

2020
Penelitian Fundamental

Penggunaan Penstabil Tegangan Sebagai Penghemat Energi pada Proses Sterilisasi Susu Sapi dengan Metode Ignition Coil

Dr. KERISTA TARIGAN, M.Eng.Sc. , SYAHRUL HUMAIDI

2019
Penelitian Tim Pasca Sarjana

Pengaruh Penggantian Atom (Be, Mg, Ra dan Li) dan Modifikasi Pembuatan Sampel terhadap Peningkatan Temperatur kritis Bahan Superkonduktor BPSCCO-2223

Dr. KERISTA TARIGAN, M.Eng.Sc. , SYAHRUL HUMAIDI

2014
Penelitian Disertasi Doktor

Pengaruh Penambahan Cr2O3 terhadap Peningkatan Temperatur Kritis dan Kestabilan

SYAHRUL HUMAIDI

Intellectual Property Rights

2026
Hak cipta nasional

Robotika dan Otomasi Pintar (Sistem Kontrol Berbasis AI)

DOLI BONARDO , HERRI TRISNA FRIANTO , SYAHRUL HUMAIDI

2025
Paten nasional

Metode Pembuatan Nano Adsorben untuk Remediasi Air Tercemar Logam Berat

SYAHRUL HUMAIDI

2025
Paten nasional

Metode Pembuatan Nano Absorben Untuk Remediasi Air Tercemar Logam Berat

PERDINAN SINUHAJI , ERNA FRIDA , SYAHRUL HUMAIDI

2024
Paten nasional

ALAT PENURUN KADAR ASAM LEMAK BEBAS TEGANGAN TINGGI

SYAHRUL HUMAIDI

2024
Paten nasional

Proses Pembuatan Bio Baterai Berbasis Hasil Fermentasi Limbah Jeruk Manis (sitrus sinensis)dan Baterai Bekas Yang Ditambahkan Gel PVA (Poly Vinyl Alcohol)

SYAHRUL HUMAIDI

2023
Hak cipta nasional

Keselamatan Ketenagalistrikan (K2)

SYAHRUL HUMAIDI

2020
Paten nasional

Metode Untuk Meningkatkan Temperatur Kritis Pada Bahan Superkonduktor Suhu Tinggi (TlBa2CaCu2O8-d) Dengan Penambahan Cr2O3

SYAHRUL HUMAIDI