

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

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Fakultas Matematika Dan Ilmu Pengetahuan Alam
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🏢 Ruang Ketua Prodi S2/S3 Ilmu Fisika, FMIPA USU

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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

2024

Prosiding seminar internasional

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

SYAHRUL HUMAIDI

2025

Prosiding seminar internasional

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

SYAHRUL HUMAIDI

2024

Jurnal internasional bereputasi

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

SYAHRUL HUMAIDI

2025

Jurnal internasional bereputasi

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

SYAHRUL HUMAIDI

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

Prosiding seminar internasional

Effect of Co doping on the synthesis of CuCrO_2 materials using solid-state method

SYAHRUL HUMAIDI

2023

Jurnal internasional bereputasi

Thematic Construction in the News Coverage of the COVID-19 Pandemic: The Pattern and Its Implication in Teaching English News-Item Text

MUHAMMAD YUSUF , 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

Prosiding seminar internasional

Preparation of Cu₂O/ZnO nanocomposites for visible light photocatalytic activity for methylene blue degradation

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

2020

Jurnal internasional

EFFECT OF Cr₂O₃ ON THE TRANSITION TEMPERATURE AND PHASE FORMATION OF Tl_{2-x}Cr_xBa₂CaCu₂O_{8-δ} SUPERCONDUCTOR

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

Prosiding seminar internasional

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

SYAHRUL HUMAIDI

2026

Jurnal internasional bereputasi

Improvement of the superconducting properties of carbon addition on Bi_{1.6}Pb_{0.4}Sr₂Ca₂Cu₃O_{10+δ}; prepared through the two-step sintering process

SYAHRUL HUMAIDI

2022

Jurnal internasional bereputasi

The Optimization of Silica-Based Composite Membrane from Volcanic Ash of Mount Sinabung, Titanium Dioxide, and Polyvinyl Alcohol for River Water Treatment through Photocatalyst Process

SYAHRUL HUMAIDI

2026

Jurnal internasional bereputasi

Optimization of L-cysteine as a nitrogen and sulfur source in carbon dots synthesized from shrimp shells as supercapacitor electrodes

MUHAMMADIN HAMID , SYAHRUL HUMAIDI , NURSAL , Noor Haida Mohd Kaus

2026

Buku referensi

Robotika dan Otomasi Pintar (Sistem Kontrol Berbasis AI)

DOLI BONARDO , SYAHRUL HUMAIDI , HERRI TRISNA FRIANTO

2023

Jurnal nasional terakreditasi

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

SYAHRUL HUMAIDI

2023

Jurnal internasional bereputasi

Effect of calcination frequency on the thermoelectric properties of Ti doped CuCrO₂ by solid state method

2024

Jurnal internasional bereputasi

Study and characterization of BaFe₁₂O₁₉/PVDF composites as electrode materials for supercapacitors

MUHAMMADIN HAMID , 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

2024

Jurnal internasional bereputasi

The subjectivity portrayed in online news under the theme of COVID-19 in Indonesia

MUHAMMAD YUSUF , 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

2025

Jurnal internasional bereputasi

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

SYAHRUL HUMAIDI

2023

Jurnal internasional bereputasi

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

SYAHRUL HUMAIDI

2026

Jurnal internasional

The Preparation of (Tl₁Pb_{1-x}M_x) Sr₂Ca₂Cu₃O_{9- δ} ; Superconductor via Stoichiometric Reaction

SYAHRUL HUMAIDI

2022

Prosiding seminar internasional

Synthesis and material characterization of calcium carbonate (CaCO₃) from the waste of chicken eggshells

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

2024

Prosiding seminar internasional

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

SYAHRUL HUMAIDI

2024

Prosiding seminar internasional

Evaluation of Meteorological Radar Precipitation Forecast in Banten

SYAHRUL HUMAIDI

2026

Jurnal nasional terakreditasi

Achiruddin dan Tua Raja Simbolon, 2012

SYAHRUL HUMAIDI

2023

Jurnal internasional bereputasi

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

SYAHRUL HUMAIDI

2023

Prosiding seminar internasional

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

SYAHRUL HUMAIDI

2022

Prosiding seminar internasional

The influence of carbon addition on the superconducting properties of BPSCCO

SYAHRUL HUMAIDI , EKA FEBY RONAULI LUBIS

2024

Prosiding seminar internasional

Effect of Sintering Temperature on AC Susceptibility and Superconducting Properties of (Bi_{1.6}Pb_{0.4})Sr₂CaCu₂O₈ Superconductor

SYAHRUL HUMAIDI

2025

Jurnal internasional bereputasi

ENCAPSULATION OF PHASE CHANGE MATERIAL-MAGNETITE (Fe₃O₄) COMPOSITE IN NOVEL COPPER TUBE CONFIGURATION (VERTICAL AND HORIZONTAL) FOR THERMAL STORAGE APPLICATION

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

2022

Prosiding seminar internasional

Superconducting Properties of Ta Substituted (Tl_{1-x}Tax)(BaSr)CaCu₂O₇

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

2025

Jurnal internasional bereputasi

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

WINSYAH PUTRA RITONGA , SYAHRUL HUMAIDI , MOTLAN , EDDIYANTO

2023

Jurnal nasional terakreditasi

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

YUSRIDAH RANGKUTI , SYAHRUL HUMAIDI

2023

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

SYAHRUL HUMAIDI

2020

Prosiding seminar internasional

Time Frequency Signal Classification Using Continuous Wavelet Transformation

SYAHRUL HUMAIDI

2025

Jurnal internasional bereputasi

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

SYAHRUL HUMAIDI

2020

Jurnal internasional bereputasi

EFFECT OF Cr₂O₃ ON THE TRANSITION TEMPERATURE AND PHASE FORMATION OF Tl_{2-x}Cr_xBa₂CaCu₂O_{8-δ} SUPERCONDUCTOR

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

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

2020

Prosiding seminar internasional

Preparation of FeSeTe superconductor by conventional 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

2023

Jurnal internasional bereputasi

Effect of surface coating on changes in mass and heat rate on hydrophobic layer coated metal foam

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

Jurnal internasional bereputasi

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

SYAHRUL HUMAIDI

2022

Jurnal nasional

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

SYAHRUL HUMAIDI

2025

Jurnal internasional bereputasi

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

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

2021

Prosiding seminar internasional

Stainless steel foam as wick material in heat pipe for electronics cooling application

SYAHRUL HUMAIDI

2022

Jurnal internasional bereputasi

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

SYAHRUL HUMAIDI

2024

Prosiding seminar internasional

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

SUNARDI , MARZUKI SINAMBELA , SYAHRUL HUMAIDI , MARHAPOSAN SITUMORANG

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

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

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

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 Marshallâ Palmer reflectivityâ rainfall rate in Banten

MARZUKI SINAMBELA , SYAHRUL HUMAIDI , HARTANTO

2019

Jurnal internasional bereputasi

Superconducting Properties of Te-Substituted (Tl₂-xTex) Ba₂CaCu₂O_{8-δ}

2021

Prosiding seminar internasional

Synthesis and characterization of nanoparticles Zn_{0.7}Ni_{0.15}Cu_{0.15}Fe₂O₄ using the coprecipitation method

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

2023

Prosiding seminar internasional

Synthesis and characterization of nanocomposites Fe₃O₄-ZnO

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

2023

Jurnal nasional terakreditasi

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

SYAHRUL HUMAIDI , ENDAH PUSPITA SARI

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 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

2020

Prosiding seminar internasional

Development of TBCCO high temperature superconductor

SYAHRUL HUMAIDI

2024

Jurnal internasional bereputasi

Mood congruency in COVID-19 podcast discourse: an interpersonal meaning analysis

SYAHRUL HUMAIDI , MUHAMMAD YUSUF

2023

Prosiding seminar internasional

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

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

Physical Characteristics of Aceh Traditional Salt and Its Potential as Raw Material for Thermal Energy Storage

MAKMUR SIRAIT , SYAHRUL HUMAIDI , GUNAWATI

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

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

SYAHRUL HUMAIDI

2024

Jurnal internasional bereputasi

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

MARZUKI SINAMBELA , SYAHRUL HUMAIDI , HARTANTO

2021

Jurnal internasional bereputasi

Review - A Pollutant Gas Sensor Based on Fe₃O₄Nanostructures: A Review

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

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

2024

Jurnal internasional bereputasi

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

FITRI KHOERUNNISA , 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

Jurnal internasional bereputasi

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

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

2021

Jurnal internasional bereputasi

Review - Recent Development of WO₃ for Toxic Gas Sensors Applications

SYAHRUL HUMAIDI

2021

Jurnal internasional bereputasi

Improvement of the superconducting properties of carbon addition on Bi₁.6Pb_{0.4}Sr₂Ca₂Cu₃O₁₀+ δ prepared through the two-step sintering process

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

2023

Prosiding seminar internasional

Synthesis And Characterization Of Nanocomposites Fe₃O₄- ZnO

SYAHRUL HUMAIDI

2022

Jurnal nasional

XRD Analysis of Li₄Ti₅O₁₂ with Post Heat Treatment for Lithium-ion Capacitor (LIC) Applications

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

Tulisan ilmiah

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

MARZUKI SINAMBELA , SYAHRUL HUMAIDI , SUNARDI

2022

Jurnal internasional bereputasi

Surface treatment on metal foam wick of a ferrofluid heat pipe

SYAHRUL HUMAIDI

2024

Jurnal internasional bereputasi

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

SYAHRUL HUMAIDI

2025

Prosiding seminar internasional

Paraffin and magnetite composite for thermal management applications

SYAHRUL HUMAIDI

2024

Prosiding seminar internasional

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

NONI SURTIANA SILALAHI , SYAHRUL HUMAIDI

2023

Jurnal internasional bereputasi

Enhanced superconducting transition temperature for Cr-substituted Tl₂Ba₂CaCu₂O₈- δ

SYAHRUL HUMAIDI

2025

Jurnal internasional bereputasi

Polyethylene glycol-magnetite composite encapsulated concrete as a thermal

energy storage

SYAHRUL HUMAIDI

2026

Jurnal internasional bereputasi

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

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

2022

Jurnal internasional bereputasi

Physical Characteristics of Aceh Traditional Salt and Its Potential as Raw Material for Thermal Energy Storage

SYAHRUL HUMAIDI

2024

Jurnal internasional bereputasi

Enhancing superconducting properties of YBa₂Cu₃O_{7-δ} through Nd₂O₃ addition prepared using modified thermal decomposition method

SYAHRUL HUMAIDI

2023

Prosiding seminar internasional

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

SYAHRUL HUMAIDI

2024

Jurnal internasional bereputasi

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

SYAHRUL HUMAIDI

2023

Prosiding seminar internasional

Variability of the thermocline layers during Indian Ocean dipole phenomenon in the western waters of Sumatra

KURNIA SEMBIRING , MARHAPOSAN SITUMORANG , SYAHRUL HUMAIDI , Dr. KERISTA TARIGAN, M.Eng.Sc.

2024

Jurnal nasional terakreditasi

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

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

2022

Prosiding seminar internasional

Superconducting Properties of Ta Substituted (Tl_{1-x}Tax)(BaSr)CaCu₂O₇

SYAHRUL HUMAIDI

2022

Jurnal internasional bereputasi

Superhydrophobic coated metal foam for PEM fuel cell application

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

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

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

SYAHRUL HUMAIDI

2023

Jurnal nasional

Characterization of CuCrO₂ Material Produced Using 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

TENGGU ADETYA NURHALIZA , SYAHRUL HUMAIDI

2024

Jurnal internasional

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

MARZUKI SINAMBELA , SYAHRUL HUMAIDI , SUNARDI

2024

Prosiding seminar internasional

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

SYAHRUL HUMAIDI

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

2024

Jurnal internasional bereputasi

Study and characterization of BaFe₁₂O₁₉/PVDF composites as electrode materials for supercapacitors

SYAHRUL HUMAIDI

2021

Prosiding seminar internasional

Increasing critical temperature on BPSCCO superconductors with addition of Al₂O₃

SYAHRUL HUMAIDI

2020

Prosiding seminar internasional

Study on Hydrochar Nanostructure from Durian Skin Waste Reinforced by Gum Arabic as an Organic Ink

SYAHRUL HUMAIDI

2023

Jurnal internasional bereputasi

IDENTIFICATION 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

2022

Jurnal internasional bereputasi

Enhanced adsorption performance of chitosan/cellulose nanofiber isolated from durian peel waste/graphene oxide nanocomposite hydrogels

DIANA ALEMIN BARUS , SYAHRUL HUMAIDI , RISKI TITIAN GINTING

Researches

2014

Penelitian Disertasi Doktor

Pengaruh Penambahan Cr₂O₃ terhadap Peningkatan Temperatur Kritis dan Kestabilan

SYAHRUL HUMAIDI

2023

Kerjasama Luar Negeri dan Publikasi Internasional

Activated Carbon from Biomass Waste Candlenut Shells (Aleurites Moluccana) Doped ZIF-67 Supported Fe₃O₄ as Advanced Materials for Supercapacitor

MUHAMMADIN HAMID , SYAHRUL HUMAIDI , Isnaeni

2024

Kerjasama Luar Negeri dan Publikasi Internasional

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

SYAHRUL HUMAIDI

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

2021

Penelitian Fundamental

Subjektifitas Dan Fungsi Tekstual Dalam Berita Terkait Covid-19 Pada Media Massa Nasional

MUHAMMAD YUSUF , SYAHRUL HUMAIDI

2022

Penelitian Tim Pasca Sarjana

Pengaruh Penambahan MnO₂ terhadap Peningkatan Temperatur Kritis Superkonduktor Suhu Tinggi CuCrO₂

SYAHRUL HUMAIDI , NURUL MAULIDA RAHMAHYANI NST

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

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 Bi_{1.6}Pb_{0,4} Sr₂Ca_{1-x} M_x Cu₂O₈ (M=Ce,Na,Mg)

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

2021

Penelitian Dana Lokal Perguruan Tinggi

Kongruensi Dalam Podcast Youtube Bertema Covid-19

MUHAMMAD YUSUF , 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

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

Community Services

2022

Ipteks Bagi Masyarakat

Konversi Motor Diesel ke Motor Listrik 15 kW untuk Ekstruder Pelet Apung Pakan Ikan Lele di Desa Bandar Klippa Medan Tembung

MUHAMMADIN HAMID , SYAHRUL HUMAIDI , EMIA PEPAYOSA BARUS , IVI BRILIANSI DALIMUNTHER , DINDA AMILIA , TB. MUHAMMAD AULIA SABILILLAH , HADI WIJOYO

Intellectual Property Rights

2022

Patent nasional

ALAT PENURUN KADAR ASAM LEMAK BEBAS TEGANGAN TINGGI

SYAHRUL HUMAIDI

2022

Hak cipta nasional

Keselamatan Ketenagalistrikan (K2)

SYAHRUL HUMAIDI

2022

Hak cipta nasional

Robotika dan Otomasi Pintar (Sistem Kontrol Berbasis AI)

DOLI BONARDO , SYAHRUL HUMAIDI , HERRI TRISNA FRIANTO

2022

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

2022

Paten nasional

Metode Untuk Meningkatkan Temperatur Kritis Pada Bahan Superkonduktor Suhu Tinggi (TlBa₂CaCu₂O_{8-d}) Dengan Penambahan Cr₂O₃

SYAHRUL HUMAIDI

2022

Paten nasional

Metode Pembuatan Nano Adsorben untuk Remediasi Air Tercemar Logam Berat

SYAHRUL HUMAIDI
