Prof. Dr. Perdinan Sinuhaji, MS

Lecturer of Laboratorium Kristalografi Study Program
Fakultas Matematika Dan Ilmu Pengetahuan Alam
Universitas Sumatera Utara

perdinan@usu.ac.id

USU Faculty of Mathematics and Natural Sciences

fmipa.usu.ac.id/en/lecturer/perdinan-sinuhaji

Dr. Perdinan Sinuhaji, M.S. was born in Karo on March 10, 1959. Currently, he serves as a lecturer in Physics at Universitas Sumatera Utara. He completed a Doctoral Program in Physics at Universitas Sumatera Utara (USU) in 2010.

Publications

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 , ISMAIL AB , ERNA FRIDA , SYAHRUL HUMAIDI , HARIYATI LUBIS

2025
Prosiding seminar internasional

Preparation and Characterization of Nanochitosan Derived from Shrimp Shell Waste

TIMBANGEN SEMBIRING , SUSILAWATI , PERDINAN SINUHAJI , ERNA FRIDA , TENGKU MACHDHALIE SOFIE , IRPANSYAH SIREGAR , ISMAIL AB , HARIYATI LUBIS

2025
Jurnal internasional bereputasi

Desalination of Seawater using Pahae Natural Zeolite-Activated Carbon derived from Kepok Banana Peel (Musa paradisiaca Linn.)

SUSILAWATI , MERPISELDIN NITSAE , PERDINAN SINUHAJI , HARIYATI LUBIS , FAJAR RINALDI , MUHAMMAD RAFLY IHSAN AS SIDDIQ , Mutia Irma

2024
Prosiding seminar internasional

Silica Sol as a Filler in Process of Materializing Mullite Fiber (SiO2.Al2.O3)

PERDINAN SINUHAJI

2024
Prosiding seminar internasional

Physical characteristics of extrudate with treatment composition ratio of mixed corn grit-soybean flour and extruder barrel temperature

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2023
Prosiding seminar internasional

Effect of Urea and Chitosan Doping on Red Bean Carbon Dots as Heavy Metal Detectors

PERDINAN SINUHAJI

2023
Prosiding seminar internasional

Synthesis BaFe12O19/RGO Composite As Microwave Absorber For Ku-Band

PERDINAN SINUHAJI

2023
Prosiding seminar internasional

Lead-Free Perovskite Using Formamidinium Iodide (FAI) and Antimony Trichloride (SbCl3) By Inverse Temperature Crystallization Method: Bandgap Value UV/VIS Spectroscopy

PERDINAN SINUHAJI , Dr. KERISTA TARIGAN, M.Eng.Sc.

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 internasional bereputasi

Banana peels activated carbon performance for the remediation of lead contaminated heavy metal water (Pb)

PERDINAN SINUHAJI , KHAIRIAH, SSI, MSI , ERNA FRIDA , SYAHRUL HUMAIDI

2023
Jurnal nasional terakreditasi

Design of Analytical Balance for Calibration of Measuring Cup of Observatory Type Rain Gauge with Automatic Pump

YAHYA DARMAWAN , SYAHRUL HUMAIDI , MARHAPOSAN SITUMORANG , MUHAMMAD WILDAN ABDULMAJID , PERDINAN SINUHAJI , Dr. KERISTA TARIGAN, M.Eng.Sc.

2023
Jurnal internasional bereputasi

Carboxymethyl Cellulose Nanoadsorbent for Remediation of Polluted Water

ERNA FRIDA , KHAIRIAH, SSI, MSI , PERDINAN SINUHAJI , PUTUT MARWOTO, DR., MSi , SYAHRUL HUMAIDI , KERISTA SEBAYANG

2022
Jurnal internasional bereputasi

Carboxymethyl Cellulose Nanoadsorbent for Remediation of Polluted Water Pengarang

ERNA FRIDA , SYAHRUL HUMAIDI , PERDINAN SINUHAJI

2022
Jurnal internasional bereputasi

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

SYAHRUL HUMAIDI , PERDINAN SINUHAJI , ERNA FRIDA

2022
Jurnal internasional bereputasi

Selfcleaning and antibacterial activities of textiles using nanocomposite oil palm boiler ash (OPBA), TiO2 and chitosan as coating

PERDINAN SINUHAJI , SYAHRUL HUMAIDI , ERNA FRIDA

2021
Prosiding seminar internasional

Degradation studies of MASbCl3 with a variety of DMF and DMSO solvents: A lead-free perovskite

PERDINAN SINUHAJI , Dr. KERISTA TARIGAN, M.Eng.Sc.

2021
Jurnal internasional bereputasi

Obtaining tin (II) oxide by a chemical method

PERDINAN SINUHAJI

2020
Artikel ilmiah

Study of Physical and Magnetic Properties of Barium Hexaferrite Substituted by Nd2O3

POPI SASNIATI , TIMBANGEN SEMBIRING , PERDINAN SINUHAJI

2026
Prosiding seminar internasional

Properties of low-cost MgB2 superconducting wires fabricated by high reduction cold rolling

PERDINAN SINUHAJI

Researches

2023
Penelitian Fundamental

Pembuatan Dan Karakterisasi Zeolit Alam Pahae Dan Arang Aktif Kulit Pisang Kepok Sebagai Absorben Untuk Menurunkan Salinitas Air Laut Di Pantai Cermin Deli Serdang Sumatera Utara

SUSILAWATI , MERPISELDIN NITSAE , PERDINAN SINUHAJI

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

Community Services

2019
KKN Pembelajaran Pemberdayaan Masyarakat

Pemberdayaan Masyarakat Berupa Pembuatan Sabun Cuci Tangan dan Penyuluhan Cuci Tangan Pakai Sabun Sebagai Upaya Meningkatkan Kesadaran Hidup Sehat Masyarakat Desa Sei Siarti Kecamatan Panai Tengah Kabupaten Labuhanbatu

MANIS SEMBIRING , PERDINAN SINUHAJI

Intellectual Property Rights

2025
Paten nasional

Metode Pembuatan Nano Komposit Termoplastik Elastomer

ERNA FRIDA , PERDINAN SINUHAJI

2025
Paten nasional

Metode Pembuatan Nano Absorben Untuk Remediasi Air Tercemar Logam Berat

PERDINAN SINUHAJI , ERNA FRIDA , SYAHRUL HUMAIDI

2024
Paten nasional

Proses melapisisn kain dengan sifat pembersih diri dan aktibakteri

PERDINAN SINUHAJI

2019
Hak cipta nasional

Teknologi Film Tipis

PERDINAN SINUHAJI