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Prof. Dr. Eng. Rondang Tambun, S.T., M.T. was born in Tarutung on April 12, 1972, and is a lecturer in Chemical Engineering at the Universitas Sumatera Utara. Currently, he holds the position as the Secretary of the Master's and Doctoral Program in Chemical Engineering. He completed a Doctoral Program in Chemical Engineering at the Faculty of Engineering of Muroran Institute of Technology, Japan, in 2012.

Publications

2026

Prosiding seminar internasional

The effect of solvent ratio and time on tannin extraction from ketapang leaves (*Terminalia Catappa L.*) with ultrasonic assisted method

RONDANG TAMBUN , BRYAN TUAH RPIMA SIAHAAN , PATRICIA RACHEL WARUWU , VIKRAM ALEXANDER

2026

Jurnal internasional bereputasi

Vacuum pressure application in biodiesel production from refined bleached deodorized palm olein

RONDANG TAMBUN , VIKRAM ALEXANDER , ANGGARA DWITA BURMANA

2025

Jurnal internasional bereputasi

Carbon footprint of biodiesel production using waste cooking oil: Performance and analysis through amberlite HPR 9000 SO4 as catalyst

RONDANG TAMBUN

2025

Jurnal internasional bereputasi

Natural corrosion inhibitors derived from powder, concentrated extract and tannin of ketapang (*Terminalia catappa L.*) leaves for iron protection in sodium chloride solutions

RONDANG TAMBUN

2025

Prosiding seminar internasional

The Effect of Vegetable Oil Fatty Acid Composition on The Psysico-Chemical Properties of Biodiesel: A Review

RONDANG TAMBUN

2025

Jurnal internasional bereputasi

The Effect of Particle Size, Activation Type and Contact Time of Cocoa Pod Husk (*Theobroma Cacao L.*) Activated Carbon on Artificial Waste Chromium Adsorption Capability

ARI FERNANDO PANJAITAN , EVA EKLESIA SITANGGANG , HENOKH SITORUS , VIKRAM ALEXANDER , RONDANG TAMBUN

2024

Jurnal internasional bereputasi

The Effect of Pyrolysis Temperature and Raw Materials Mass Comparison on

the Characteristics of Briquettes from a Mixture of Rice Husk (*Oryza sativa* L.) and Jengkol Peel (*Pithecellobium jiringa*) Using Starch Adhesives

ZAKIYAH NURUL AINI , DANDY RIFKI MULYA , VIKRAM ALEXANDER , RONDANG TAMBUN

2024

Prosiding seminar internasional

Combination of addition and activation of lipase enzyme in peanut seed (*Arachis hypogaea* L.) for direct fatty acid production

ARI FERNANDO PANJAITAN , RONDANG TAMBUN , DEBBY THEO DORA BR SITANGGANG , VIKRAM ALEXANDER

2024

Prosiding seminar internasional

Effect of Packaging Type and Storage Time on the Quality of Wheat Flour

RONDANG TAMBUN , BIMA , MUHAMMAD IBADURRAHMAN

2024

Jurnal nasional terakreditasi

Pengaruh Jenis Cairan serta Jenis dan Panjang Batang pada Penentuan Distribusi Ukuran Partikel Bubuk Kaca Menggunakan Buoyancy Weighing-Bar Method

ANROCKI SIRAIT , ARI FERNANDO PANJAITAN , RONDANG TAMBUN

2024

Prosiding seminar internasional

Activation and addition of lipase enzyme in coconut (*Cocos nucifera*) in direct fatty acid production

RONDANG TAMBUN , VIKRAM ALEXANDER , INNIEKE BASANI THERESIA SIMARMATA , ELISABETH ANISA NOVI KARYANI PURBA , JUAN SURYA MANURUNG

2024

Jurnal internasional bereputasi

EXTRACTION OF SOURSOP LEAVES (*ANNONA MURICATA* L.) AS A SOURCE OF ZINC CORROSION INHIBITOR IN SODIUM CHLORIDE MEDIUM

VIKRAM ALEXANDER , YAMANIEL GINTING , BUNGARAN TAMBUN , RONDANG TAMBUN

2023

Prosiding seminar internasional

Tannin extraction from Jengkol peel (*Pithecellobium jiringa*) with maceration method using ethanol as solvent

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2023

Prosiding seminar internasional

Comparison of zinc corrosion rate and iron corrosion rate in chloride acid medium using Petai peel as a corrosion inhibitor

RONDANG TAMBUN

2023

Jurnal nasional terakreditasi

Kombinasi Persamaan Rosin-Rammler dan Metode Pengapungan Batang (Buoyancy Weighing-Bar Method) pada Penentuan Distribusi Ukuran Gelembung Air dalam Kerosin

RONDANG TAMBUN

2022

Jurnal internasional bereputasi

THE USE OF PANDAN LEAVES (*Pandanus amaryllifolius* Roxb.) AS IRON CORROSION INHIBITOR IN HCl MEDIUM

RONDANG TAMBUN

2022

Jurnal internasional bereputasi

CRUDE PALM OIL GUM AS ADSORBENT TO REDUCE RESEARCH OCTANE NUMBER AND BOILING POINT OF BIOETHANOL FOR GASOLINE E-85

MINTO SUPENO , RONDANG TAMBUN

2022
Jurnal internasional bereputasi

APPLICATION OF JENGKOL PEEL (*Pithecollobium jiringa*) AS IRON CORROSION INHIBITORS IN HYDROCHLORIC ACID MEDIUM

RONDANG TAMBUN

2022
Jurnal internasional bereputasi

The Effect of Reactant Molar Ratio to Performance of H₂SO₄ Catalyst and Para-Toluene Sulfonic Acid Catalyst in the Esterification of Palm Fatty Acid Distillate into Biodiesel

RONDANG TAMBUN

2021
Jurnal internasional bereputasi

EFFECT OF OPERATING TEMPERATURE ON BIODIESEL PRODUCTION FROM PALM FATTY ACID DISTILLATE BY USING THE AMBERLYST CATALYST

RONDANG TAMBUN

2021
Prosiding seminar internasional

Application of Petai Peel as an Iron Corrosion Inhibitor in Sodium Chloride Medium

RONDANG TAMBUN

2021
Prosiding seminar internasional

Performance Comparison of Maceration Method, Soxhletation Method, and Microwave-Assisted Extraction in Extracting Active Compounds from Soursop Leaves (*Annona muricata*): a Review

RONDANG TAMBUN

2021
Jurnal nasional terakreditasi

PENGARUH KONSENTRASI KATALIS ASAM SULFAT DAN WAKTU REAKSI PADA PEMBUATAN BIODIESEL DARI ASAM LEMAK KELAPA SAWIT

RONDANG TAMBUN

2021
Prosiding seminar internasional

Effect of type and shape of rods in separation time determining of glycerol in biodiesel by the buoyancy weighing bar method

RONDANG TAMBUN

2021
Prosiding seminar internasional

The use of Soxhletation Method and Microwave-Assisted Extraction in Extracting Tannin from Jengkol Peel (*Pithecollobium jiringa*)

RONDANG TAMBUN

2020
Jurnal internasional bereputasi

THE UTILIZATION OF BANANA PEEL AS AN ORGANIC CORROSION INHIBITOR OF ZINC IN CHLORIDE ACID MEDIUM

RONDANG TAMBUN

2020
Jurnal nasional terakreditasi

Pengaruh Panjang, Bentuk, dan Jenis Batang pada Metode Pengapungan Batang dalam Mendeteksi Waktu Pemisahan Kerosin dan Air

RONDANG TAMBUN

2020
Jurnal internasional bereputasi

The potential of petai peel as a zinc corrosion inhibitor in sodium chloride solution

2020

Prosiding seminar internasional

Activating Lipase Enzyme in the Candlenut Seed to Produce Fatty Acid Directly from Candlenut Seed

RONDANG TAMBUN

2020

Prosiding seminar internasional

The capability of buoyancy weighing bar method in determining the separation time of biodiesel and glycerol at various concentrations

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2016

Jurnal nasional terakreditasi

Pembuatan Biofuel dari Palm Stearin dengan Proses Perengkahan Katalitik Menggunakan Katalis ZSM-5

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2016

Jurnal internasional bereputasi

Measurement and Estimation of the Particle Size Distribution by the Buoyancy Weighing Bar Method and the Rosin-Rammler Equation

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2015

Jurnal nasional terakreditasi

Kemampuan Daun Jambu Biji sebagai Inhibitor Korosi Besi pada Medium Asam Klorida

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2012

Jurnal internasional bereputasi

Sizes influences of weighing bar and vessel in the buoyancy weighing-bar method on floating particle size distribution measurements

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2012

Jurnal internasional bereputasi

Definition of the new mean particle size based on the settling velocity in liquid

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2011

Jurnal internasional bereputasi

Size distribution measurement of floating particles in the Allen region by a buoyancy weighing-bar method

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Community Services

2014

Penelitian Hibah Bersaing

Pengolahan Limbah Cair Pabrik Kelapa Sawit Dari Unit Reaktor Anaerobik Unggun Te
