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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
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### Qualitative Analysis and Functional Groups Identification of Flavonoid From Butterfly Blue Pea (Clitoria ternatea) Flower Extract

RONDANG TAMBUN , ZUHRINA MASYITHAH , ULFATUNNISA , VIKRAM ALEXANDER

2026
Jurnal internasional bereputasi

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

VIKRAM ALEXANDER , ANGGARA DWITA BURMANA , RONDANG TAMBUN

2025
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### Carbon footprint of biodiesel production using waste cooking oil: Performance and analysis through amberlite HPR 9000 SO4 as catalyst

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

RENITA MANURUNG , AFFILA , RONDANG TAMBUN , ANGGARA DWITA BURMANA , AGA NUGRAHA , ASRI MUNAWAR

2025
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### Natural corrosion inhibitors derived from powder, concentrated extract and tannin of ketapang (Terminalia catappa L.) leaves for iron protection in sodium chloride solutions

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

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2025
Jurnal internasional bereputasi

## Competence of corncob (Zea mays L.) powder with HCl activation as adsorbent to purify waste cooking oil: Reference in the batch adsorption process

RONDANG TAMBUN , BODE HARYANTO

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

2025
Prosiding seminar internasional

## Quality analysis of soap noodles from palm fatty acid distillate-refined bleached deodorized palm stearin blend

ROSDANELLI HASIBUAN , RONDANG TAMBUN

2024
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## Utilization of natural and chemical activation corncob as adsorbent for continuous purification of used cooking oil using adsorption column

BODE HARYANTO , RONDANG TAMBUN , VIKRAM ALEXANDER , JASMINE WINARTA , GRACE IVANA BATSEBA BRM TARIGAN , JEREMIA TOGI CHRISTIAN SIADARI

2024
Jurnal internasional bereputasi

## Comparison of the Carrier Compound Capabilities of Silica Gel, Amberlite XAD-2 and DEAE Sephadex A-50 in the Immobilization Process of the Lipase Enzyme in the Hydrolysis Reaction of Palm Olein (Elaesis guineensis)

BODE HARYANTO , FBA FITRIANI , VIKRAM ALEXANDER , RONDANG TAMBUN

2024
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## Comparison of the Carrier Compound Capabilities of Silica Gel, Amberlite XAD-2 and DEAE Sephadex A-50 in the Immobilization Process of the Lipase Enzyme in the Hydrolysis Reaction of Palm Olein (Elaesis guineensis)

FBA FITRIANI , RONDANG TAMBUN , BODE HARYANTO , Vikram Alexander

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## 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

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## The utilization of bagasse from PG Kwala Madu as precursor in activated carbon production

VIQRY PRAMANANDA , ROSDANELLI HASIBUAN , MUHAMMAD FAIZUL HISHAM , RONDANG TAMBUN

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## Durian Peel (Durio zibethinus) Utilization as an Adsorbent in the Purification of Acidified Crude Glycerol

VIKRAM ALEXANDER , DANIEL REYMONDO MANURUNG , ADOLF PARASIAN RITONGA , RONDANG TAMBUN , BODE HARYANTO

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## THE POTENTIAL OF CATALYST BASED ON PALM LEAVES IN BIODIESEL PRODUCTION AS PART OF PALM OIL LIFE CYCLE ASSESMENT

ALWI GERY AGUSTAN SIREGAR , RENITA MANURUNG , RONDANG TAMBUN , HAMIDAH HARAHAP

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## SDS and TX-100 performance in removing Cd ion from contaminated sand in flushing column

BODE HARYANTO , RONDANG TAMBUN , VIKRAM ALEXANDER , TUBAGUS RAYYAN FITRA SINUHAJI , Chien-Hsiang Chang

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## 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

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## Application of Sodium Silicate from Palm Leaf Ash as Heterogeneous Catalyst in Transesterification of Palm Oil

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

RONDANG TAMBUN , BIMA , MUHAMMAD IBADURRAHMAN

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## 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

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

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## Corn Drying with a Rotary Dryer: Effect of Air Speed and Drying Temperature Operating Conditions

ARYA SAKA WICAKSONO , RONDANG TAMBUN , ROSDANELLI HASIBUAN

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## Application of soursop leaves (Annona muricata L.) as an iron corrosion inhibition in sodium chloride medium

RONDANG TAMBUN , BODE HARYANTO , VIKRAM ALEXANDER , YAMANIEL GINTING

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## 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

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## Comparison of natural corn cob and carbon corn cob in the purification of used cooking oil with shaker operation

RICHARD FELIX JONATHAN SINAGA , SILVIA VERONIKA BR SEMBIRING , ASTRINA HUTABARAT , VIKRAM ALEXANDER , RONDANG TAMBUN , BODE HARYANTO

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## The effect of vacuum process on biodiesel production from palm kernel fatty

## acid distillate

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## Environmental sustainability through the utilization of corn cobs as an adsorbent material in waste cooking oil

ILHAM TAUFIK NASUTION , Aflah fadliani polem , OKTAVIA MERTA SITOHANG , VIKRAM ALEXANDER , RONDANG TAMBUN , BODE HARYANTO , ZUHRINA MASYITHAH

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

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

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## Estimation of the Settling Time of Wastewater Using the Buoyancy Weighing Bar Method

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## Natural adsorbent of corncob (Zea mays L.) powder capability in purification of used cooking oil with shaking operation based on turbidity

BODE HARYANTO , RONDANG TAMBUN

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

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## Remediation of contaminated sand by Cd ions with variation operation: Batch and flushing column with foam and without foam of SDS surfactant

SISWARNI MZ , RONDANG TAMBUN , BODE HARYANTO

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## Corn stalk (Zea mays) modified by nitrate acids (HNO3) to adsorb dissolved copper ions (CU +2) in adsorption column

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

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

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

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## 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

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## Natural Batch Adsorption Operation to Remove Dissolved Copper (II) by Carbon Charcoal Rambutan

RONDANG TAMBUN , HAMIDAH HARAHAP , BODE HARYANTO

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## CORN STALK (Zea mays L.) ABILITY IN REMOVING DISSOLVE HEAVY METAL CADMIUM ION (II) IN CONTINUOUS ADSORPTION COLUMN (DOWN FLOW)

BODE HARYANTO , SISWARNI MZ , RONDANG TAMBUN

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

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

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

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

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

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

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

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

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

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## Adsorbing on Dissolved Copper Metal by Charcoal Rambutan Rods

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## Effect of Reaction Time on Biodiesel Production from Palm Fatty Acid Distillate by Using PTSA as a Catalyst

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

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

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## Determination of Cocoa Powder Particle Size Distribution by Using the Buoyancy Weighing-Bar Method

ROSDANELLI HASIBUAN , RONDANG TAMBUN

2016
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## Pembuatan Biofuel dari Palm Stearin dengan Proses Perengkahan Katalitik Menggunakan Katalis ZSM-5

RONDANG TAMBUN

2016
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## Measurement and Estimation of the Particle Size Distribution by the Buoyancy Weighingâ€“Bar Method and the Rosinâ€“Rammler Equation

RONDANG TAMBUN

2015
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## Kemampuan Daun Jambu Biji sebagai Inhibitor Korosi Besi pada Medium Asam Klorida

RONDANG TAMBUN

2012
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## Sizes influences of weighing bar and vessel in the buoyancy weighing-bar method on floating particle size distribution measurements

RONDANG TAMBUN

2012
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### Definition of the new mean particle size based on the settling velocity in liquid

RONDANG TAMBUN

2011
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### Size distribution measurement of floating particles in the Allen region by a buoyancy weighing-bar method

RONDANG TAMBUN

## Researches

2022
Penelitian Unggulan Perguruan Tinggi

### Pemanfaatan Tongkol Jagung Sebagai Adsorben dalam Pemurnian Minyak Jelantah: Adsorben alami dan Teraktivasi

BODE HARYANTO , RONDANG TAMBUN

2022

### Produksi Sabun Cair Pencuci Tangan Menggunakan Bahan Baku Turunan Minyak Kelapa Sawit dan Minyak Kelapa serta Bahan Aditif Ekstraksi Minyak Atsiri dari Kulit Kayu Manis (Cinnamomum Burmanni) dengan Metode Microwave Assisted Extraction

JULIZA HIDAYATI , RONDANG TAMBUN , ROSDANELLI HASIBUAN

2021
Penelitian Fundamental

### KARBON BATANG RAMBUTAN SEBAGAI ADSORBEN PENYERAP LOGAM TERLARUT

BODE HARYANTO , RONDANG TAMBUN , HAMIDAH HARAHAP

2018
Ipteks Bagi Masyarakat

### Batang jagung sebagai Adsorben menyerap Logam terlarut

BODE HARYANTO , SISWARNI MZ , RONDANG TAMBUN

## Community Services

2014
Penelitian Hibah Bersaing

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

## Intellectual Property Rights

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### Proses Regenerasi Katalis Basa Padat Natrium Silikat Berbasis Abu Daun Sawit Yang Dapat Digunakan Berulangkali

RONDANG TAMBUN , HAMIDAH HARAHAP , RENITA MANURUNG

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Hak cipta nasional

### Teknologi Pengeringan Aplikasi Pengeringan Kombinasi

RONDANG TAMBUN , ROSDANELLI HASIBUAN