

# Prof. Dr. Ir. Taslim, M.Si, IPM

Lecturer of Master's Program in Chemical Engineering Study Program  
Faculty of Engineering  
Universitas Sumatera Utara

✉ [taslim@usu.ac.id](mailto:taslim@usu.ac.id)

🌐 [ft.usu.ac.id/en/lecturer/taslim](http://ft.usu.ac.id/en/lecturer/taslim)

*Dr. Ir. Taslim, M.Si. was born in North Aceh on January 15, 1965, and is a lecturer in Chemistry at Universitas Sumatera Utara. He completed a Doctoral Program in Chemical Engineering at ITB in 2003.*

---

## Publications

---

2021

Jurnal internasional

### **Synthesis and Charaterization of Sodium Silicate Produced from Corncobd as a Heterogeous Catalyst in Biodiesel Production**

DR.TASLIM, IR, MSC

2020

Jurnal internasional

### **Reuse of chicken eggshell ash and natural zeolite catalyst on palm oil transesterification**

DR.TASLIM, IR, MSC

2023

Prosiding seminar internasional

### **Effect of solvent type on extraction oil from spent bleaching earth using microwave-assisted extraction**

DR.TASLIM, IR, MSC , RENITA MANURUNG

2021

Tulisan ilmiah

### **Preparation of activated carbon-based catalyst from nipa palm (*Nypa fruticans*) shell modified with KOH for biodiesel synthesis**

DR.TASLIM, IR, MSC

2018

Jurnal internasional

### **Furfural production from mile a minute weed (*Mikania micrantha*) using an organic acid from bilimbi (*Averrhoa bilimbi*)**

DR.TASLIM, IR, MSC

2025

Jurnal internasional bereputasi

### **Loss prevention of cooling tower with an open loop system at cooling tower pipeline on a biodiesel plant: Analysis and safety implications**

ANGGARA DWITA BURMANA , DR.TASLIM, IR, MSC

2020

Jurnal internasional

### **Preparation and Characterization of Sulfonated Carbon from Candlenut Shell as Catalyst for Hydrolysis of Cogon Grass Cellulose into Glucose**

DR.TASLIM, IR, MSC

2021

Tulisan ilmiah

### **Potential of lime as a green catalyst in the manufacture of furfural from**

## **Mikania micrantha**

DR.TASLIM, IR, MSC

---

2020

Tulisan ilmiah

### **Biogasoline production via catalytic cracking process using zeolite and zeolite catalyst modified with metals: A review**

DR.TASLIM, IR, MSC

---

2017

Tulisan ilmiah

### **Biodiesel production from ethanolsis of DPO using deep eutectic solvent (DES) based choline chloride&#8211;ethylene glycol as co-solvent**

DR.TASLIM, IR, MSC

---

2018

Jurnal internasional bereputasi

### **Isolation and Characterization of Nanocrystal from Corncob Waste Using H<sub>2</sub>SO<sub>4</sub> Hydrolysis Method**

DR.TASLIM, IR, MSC

---

2016

Jurnal internasional bereputasi

### **Transesterification process of palm oil using Novozym<sup>®</sup> 435 in Choline chloride (ChCl) ionic liquid system to produce biodiesel**

DR.TASLIM, IR, MSC

---

2020

Jurnal internasional bereputasi

### **Furfural Synthesis from Mikania micrantha using Tamarind Extract as Catalyst**

DR.TASLIM, IR, MSC

---

2025

Jurnal nasional terakreditasi

### **Inovasi Edible Coating Buah Mangga Berbasis Kitosan Kulit Udang dengan Aditif Ekstrak Daun Asam Jawa sebagai Antimikroba**

DR.TASLIM, IR, MSC , DESKA RIZKI PRATAMA , AIDHA SEKAR BERUTU , FAHRIZAL HUSIN , MAYCHEL YOHANA PANJAITAN

---

2016

Jurnal nasional

### **EKSTRAKSI MINYAK DARI BIJI KURMA (Phoenix dactylifera L.) DENGAN METODE SOXHLET EXTRACTION DENGAN MENGGUNAKAN ETIL ASETAT**

DR.TASLIM, IR, MSC

---

2019

Tulisan ilmiah

### **Biodiesel production using heterogeneous catalyst based on volcanic ash of Mount Sinabung**

DR.TASLIM, IR, MSC

---

2021

Tulisan ilmiah

### **Potential of papaya seeds as a heterogenous catalyst in biodiesel synthesis**

DR.TASLIM, IR, MSC

---

2018

Tulisan ilmiah

### **Biodiesel production from rice bran oil by transesterification using heterogeneous catalyst natural zeolite modified with K<sub>2</sub>CO<sub>3</sub>**

DR.TASLIM, IR, MSC

---

2016

Jurnal nasional

### **POTENSI ZEOLIT ALAM DAN CaO DARI CANGKANG TELUR AYAM SEBAGAI KATALIS DALAM PEMBUATAN BIODIESEL DARI TREATED WASTE COOKING**

## OIL

DR.TASLIM, IR, MSC

2020

Jurnal internasional

### **Furfural synthesis from mikania mircantha using sulfonated carbon catalyst derived from candlenut shell**

DR.TASLIM, IR, MSC

2015

Jurnal nasional

### **PENGHILANGAN TINTA PADA KERTAS THERMAL BEKAS: PENGARUH KONSISTENSI DAN KONSENTRASI PENDISPERSI FLOTASI**

DR.TASLIM, IR, MSC

2026

Jurnal internasional bereputasi

### **Investigate biodiesel products using heterogeneous catalysts in variations lauric acid feedstock through elemental analysis and emissions testing using diesel engines**

ANGGARA DWITA BURMANA , DR.TASLIM, IR, MSC

2017

Tulisan ilmiah

### **Biodiesel production from ethanolsis of palm oil using deep eutectic solvent (DES) as co-solvent**

DR.TASLIM, IR, MSC

2025

Prosiding seminar internasional

### **Multistage pectin extraction from lemon ( Citrus limon) peel: Effect of nitric acid solvent pH and number of stages**

DR.TASLIM, IR, MSC

2026

Prosiding seminar internasional

### **The Effect of Extraction Time on Betacyanin Pigment Content From Red Erpah Leaves (Alternanthera dentata) Extracted Using Ultrasound-Assisted Extraction**

DR.TASLIM, IR, MSC , ERNI MISRAN , AFRINA NURATIKA HARAHAP

2018

Jurnal nasional

### **Hidrolisis selulosa menggunakan katalis karbon tersulfonasi berbasis cangkang kemiri**

DR.TASLIM, IR, MSC

2019

Tulisan ilmiah

### **Biodiesel Synthesis from Waste Cooking Oil using Heterogeneous Catalyst from Corncob Ash Impregnated with KOH**

DR.TASLIM, IR, MSC

2018

Jurnal internasional

### **Integration of broth extraction and recycling scheme to bio- ethanol production from water hyacinth**

DR.TASLIM, IR, MSC

2025

Prosiding seminar internasional

### **Effect of reaction temperature on biodiesel production from refined bleached and deodorized palm olein using heterogeneous catalyst from indigofera (Indigofera zollingeriana) leaves ash**

DR.TASLIM, IR, MSC , RENITA MANURUNG , SILVIA NOVA , VIKRAM ALEXANDER , ANGGARA DWITA BURMANA , Erlan Rosyadi

2026

Jurnal internasional bereputasi

## **Investigation heat transfer coefficient and heating surface area of shell and U tube heat exchanger: analysis and performance to cooling system on biodiesel plant**

DR.TASLIM, IR, MSC , ANGGARA DWITA BURMANA , Abdullah K Alanazi

2026

Jurnal nasional terakreditasi

## **Pengaruh Perbandingan Komposisi Ampas Tebu dan Kulit Durian Terhadap Karakteristik Bio-oil**

DR.TASLIM, IR, MSC

2020

Tulisan ilmiah

## **Biodiesel synthesis from refined bleached and deodorized palm oil (RBDPO) by transesterification using durian shell based carbon modified with KOH as heterogeneous catalyst**

DR.TASLIM, IR, MSC

## **Researches**

---

2024

## **Mikroenkapsulasi Pigmen Betasianin dari Daun Erpah Merah (*Alternanthera dentata*) yang Diekstraksi Menggunakan Ultrasound dan Microwave untuk Bahan Formulasi Lip Balm**

ERNI MISRAN , DR.TASLIM, IR, MSC , AFRINA NURATIKA HARAHAP

2015

Penelitian Hibah Bersaing

## **Aplikasi System Co-Solvent Untuk Memperbaiki System Produksi Biodiesel Sawit Dar**

RENITA MANURUNG , DR.TASLIM, IR, MSC , SISWARNI MZ

## **Community Services**

---

2024

## **Imam dan Pencermah Ramadhan**

DR.TASLIM, IR, MSC

## **Intellectual Property Rights**

---

2020

Hak cipta nasional

## **Pembuatan dan Formulasi Pelarut Eutektik Untuk Proses Produksi Biodisel Secara Enzimatis**

NIMPAN BANGUN , ROSDANELLI HASIBUAN , RENITA MANURUNG , DR.TASLIM, IR, MSC

2020

Paten nasional

## **Pembuatan Sabun Sirih Padat dengan Metode Dingin sebagai Antibakteri (*P. acne* & *S.epidermis*) dan Antijamur (*C. Albican*)**

IRIANY , TASLIM , LILIS SUKEKSI

