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Okta Bani was born in Medan on January 11, 1988, and is a lecturer in Chemical Engineering at the Universitas Sumatera Utara. He completed a Master's Program in Chemical Engineering at the Faculty of Engineering of the Universitas Sumatera Utara in 2014.

Publications

2026

Prosiding seminar internasional

Pretreatment of waste cooking oil through esterification using bronsted acid catalyst to meet biodiesel feedstock requirements

OKTA BANI

2018

Jurnal internasional

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

OKTA BANI , DR IRIANY, IR, MSC , DR.TASLIM, IR, MSC

2019

Jurnal internasional

Preparation, Characterization and Application of Natural Zeolite from Tapanuli Indonesia Modified with KOH as Catalyst Support for Transesterification of Rice Bran Oil

DR IRIANY, IR, MSC , OKTA BANI , DR.TASLIM, IR, MSC

2018

Jurnal internasional bereputasi

Preparation of Activated Carbon-Based Catalyst from Candlenut Shell Impregnated with KOH for Biodiesel Production

DR.TASLIM, IR, MSC , OKTA BANI , DR IRIANY, IR, MSC

2022

Jurnal nasional terakreditasi

Pengujian Kualitas Biodiesel dari Minyak Kelapa Sawit Dengan Katalis Heterogen Abu Daun Kucai (*Allium schoenoprasum*): Parameter Berat Katalis, Rasio Mol Minyak Terhadap Metanol dan Waktu Reaksi

DAVID , TOBY FEBIANTO , OKTA BANI

2022

Prosiding seminar internasional

Comparison of microwave assisted extraction and ultrasound assisted extraction on recovery of residual palm oil from spent bleaching earth

OKTA BANI , RENITA MANURUNG , DR IRIANY, IR, MSC , DR.TASLIM, IR, MSC

2019

Jurnal nasional terakreditasi

Ekstraksi Minyak Atsiri Bunga Melati: Pengaruh Rasio Massa Bunga Melati Dengan Volume Pelarut N-Heksana, Waktu Ekstraksi, Dan Temperatur Ekstraksi

2024

Prosiding seminar internasional

Potency of papaya leaf as green catalyst in biodiesel synthesis for transesterification of coconut oil

LILIS SUKEKSI , DR.TASLIM, IR, MSC , DR IRIANY, IR, MSC , OKTA BANI , MUHAMMAD IKHSAN , YESI YULIANTIKA

2024

Jurnal internasional bereputasi

Extraction, concentration, and storage of butterfly pea anthocyanin for commercialization

DR.TASLIM, IR, MSC , MIKAEL SINAGA , SHERINA VIOLETTA BR SINULINGGA , DR IRIANY, IR, MSC , OKTA BANI

2020

Jurnal internasional

Reuse of Chicken Eggshell Ash and Natural Zeolite Catalyst on Palm Oil Transesterification

DR.TASLIM, IR, MSC , DR IRIANY, IR, MSC , OKTA BANI

2025

Prosiding seminar internasional

Pretreatment of waste cooking oil through esterification using bronsted acid catalyst to meet biodiesel feedstock requirements

DR.TASLIM, IR, MSC , RENITA MANURUNG , DR IRIANY, IR, MSC , OKTA BANI , FITRI ROWIYAH RAMBE

2026

Prosiding seminar internasional

Preliminary study of sugarcane bagasse-derived hydrochar production in acidic condition

ERNI MISRAN , MAYA SARAH , OKTA BANI , VIQRY PRAMANANDA , Abdul Hadi

2019

Jurnal nasional terakreditasi

EKSTRAKSI MINYAK ATSIRI BUNGA MELATI DENGAN MENGGUNAKAN PELARUT ISOPROPIL ETER: PENGARUH WAKTU, TEMPERATUR, DAN RASIO MASSA BUNGA MELATI DENGAN VOLUME PELARUT

DR IRIANY, IR, MSC , OKTA BANI

2022

Jurnal internasional bereputasi

Banana Stem Based Activated Carbon as A Low-Cost Adsorbent for Methylene Blue Removal: Isotherm, Kinetics, and Reusability

ERNI MISRAN , OKTA BANI

2024

Jurnal internasional

Structural analysis and mass optimization of mobility walkers using lightweight polymer matrix composites

OKTA BANI , Bharat Kumar Humagai

2022

Prosiding seminar internasional

Preparation and application of heterogeneous catalyst based on KOH impregnated activated carbon from rubber seed kernel for biodiesel synthesis

OKTA BANI , DR IRIANY, IR, MSC , DR.TASLIM, IR, MSC

2025

Jurnal internasional bereputasi

Numerical Investigation of Erosion Mechanisms in L-Shaped Pipeline Bends with Solid Impurities Using CFD

OKTA BANI , HASDDIN , ABHISHEK AGARWAL , Masengo Ilunga

2025

Jurnal internasional bereputasi

Banana stem and chicken eggshells as a filler of polyester composites for

particleboard application

OKTA BANI , RICHARD , HEINRICH , ABHISHEK AGARWAL

2019

Prosiding seminar internasional

Furfural Synthesis from Mile-a-Minute Weed (*Mikania micrantha*) using Roselle Petal Extract as Catalyst

OKTA BANI , DR IRIANY, IR, MSC , DR.TASLIM, IR, MSC

2019

Prosiding seminar internasional

Influence of Ions and Temperatures on Water-Ethanol-Gasoline Liquid-Liquid Equilibrium

DR.TASLIM, IR, MSC , DR IRIANY, IR, MSC , OKTA BANI , LILIS SUKEKSI

2019

Prosiding seminar internasional

Characterization of Coal Fly Ash Based Adsorbent for CO₂ Removal

OKTA BANI , ERNI MISRAN

2018

Prosiding seminar internasional

Biodiesel production from rice bran oil by transesterification using heterogeneous catalyst natural zeolite modified with K₂CO₃

OKTA BANI , DR IRIANY, IR, MSC , DR.TASLIM, IR, MSC

2026

Jurnal nasional terakreditasi

Pengaruh Variasi Aktivator KOH dan NaCl terhadap Kapasitas Adsorpsi Biji Kapuk (*Ceiba pentandra*) dalam Penjerapan Ion Fe(II)

KELVIN HADINATAN , DR IRIANY, IR, MSC , DR.TASLIM, IR, MSC , OKTA BANI , YESI ARTANTI , NAFIS IJLAL SYACH

Researches

2018

Penelitian Dana Lokal Perguruan Tinggi

PEMANFAATAN LIMBAH FLY ASH SEBAGAI ADSORBEN UNTUK PENYISIHAN CO₂ DARI BIOGAS

ERNI MISRAN , OKTA BANI

2022

Penelitian Dana Lokal Perguruan Tinggi

PEMBUATAN KONSENTRAT DAN SIRUP EKSTRAK BUNGA TELANG MENGGUNAKAN EKSTRAKSI ULTRASOUND

DR IRIANY, IR, MSC , DR.TASLIM, IR, MSC , OKTA BANI , MIKAEL SINAGA , SHERINA VIOLETTA BR SINULINGGA

2024

KARAKTERISASI PRODUK KARBONISASI HIDROTERMAL DALAM SUASANA ASAM MENGGUNAKAN BAHAN BAKU AMPAS TEBU

ERNI MISRAN , MAYA SARAH , OKTA BANI , Abdul Hadi

2024

Penelitian Unggulan Perguruan Tinggi

Katalis Berbasis Tandan Kosong Kelapa Sawit dan Cangkang Telur Ayam Sebagai Upaya Penanganan Limbah Padat Biomassa Untuk Menciptakan Teknologi Produksi Biodiesel yang Terintegrasi

RENITA MANURUNG , DR.TASLIM, IR, MSC , OKTA BANI , MUHAMMAD RIZKI RAMADAN NASUTION , THERESIA IVANA BR SINURAYA

2024

Kerjasama Luar Negeri dan Publikasi Internasional

Sintesis Adsorben berbasis Limbah Padat Pabrik Kelapa Sawit untuk Mengurangi Emisi Gas Karbon Dioksida sebagai Upaya Menciptakan

Teknologi Bersih Ramah Lingkungan

RENITA MANURUNG , DR.TASLIM, IR, MSC , OKTA BANI , MUHAMMAD RIZKI RAMADAN NASUTION , THERESIA IVANA BR SINURAYA

2017

Pemanfaatan Karbon Aktif dari Batang Pisang dalam Proses Adsorpsi Methylene Blue: Isoterm, Kinetika, Termodinamika, Perpindahan Massa, dan Regenerasi

ERNI MISRAN , OKTA BANI

2024

KARAKTERISASI PRODUK KARBONISASI HIDROTERMAL DALAM SUASANA ASAM MENGGUNAKAN BAHAN BAKU AMPAS TEBU

OKTA BANI

2025

Pembuatan Pengawet Ikan Dari Asap Cair Dengan Variasi Konsentrasi Asap Cair Dan Waktu Perendaman

RONDANG TAMBUN , OKTA BANI , MERSI SURIANI SINAGA , OKTAFIANA LESTARI , SALSABILLA NASUTION

2021

Penggunaan Ultrasonik untuk Intensifikasi Proses Adsorpsi Methylene Blue Menggunakan Low Cost Nano-Biosorbent Berbasis Kalsium Karbonat

ERNI MISRAN , OKTA BANI

Community Services

2025

Bakti sosial panti asuhan simpang tiga Natal 2025

KELVIN HADINATAN , OKTA BANI

2024

Bakti sosial panti asuhan simpang tiga Natal 2024

OKTA BANI

2018

Pembangunan Irigasi Air Tanah Dangkal untuk Meningkatkan Produktivitas Usaha Tani Desa Sendang Rejo Kabupaten Langkat

ING JOHANNES TARIGAN , IVO ANDIKA HASUGIAN , MEILITA TRYANA SEMBIRING , OKTA BANI

2024

Bakti sosial panti asuhan simpang tiga

OKTA BANI