Prof. Dr. Zuhrina Masyithah, ST., M.Sc.

Dosen Program Studi S2 Teknik Kimia
Fakultas Teknik
Universitas Sumatera Utara

zuhrina.masyithah@usu.ac.id

ft.usu.ac.id/id/dosen/zuhrina-masyithah

Prof. Dr. Zuhrina Masyithah, S.T., MSc. dilahirkan di Pematang Siantar pada tanggal 05 September 1971 merupakan seorang dosen di Universitas Sumatera Utara dengan bidang ilmu Teknik Kimia. Beliau menyelesaikan pendidikan terakhirnya pada jenjang S3 di Program Studi S3 Ilmu Kimia Fakultas MIPA Universitas Sumatera Utara pada tahun 2006.

Publications

2026
Jurnal internasional bereputasi

Bridging bioenergy and circularity: Drivers, barriers, and pathways of biomass valorization in Indonesia

ZUHRINA MASYITHAH

2026
Jurnal internasional bereputasi

APPLICATION OF THE ANALYTICAL HIERARCHY PROCESS METHOD ON DETERGENT FORMULATION FROM NATURAL SAPONIN

ZUHRINA MASYITHAH

2026
Jurnal internasional bereputasi

OIL SPILL DISPERSANT FORMULATION FROM METHYL ESTER SULFONATE AND SOYBEAN LECITHIN SURFACTANTS

ZUHRINA MASYITHAH

2026
Jurnal internasional bereputasi

STUDY OF BIODETERGENT FORMULATION FROM STARFRUIT LEAF EXTRACT TO PRODUCE ECO-FRIENDLY DETERGENT

ZUHRINA MASYITHAH

2026
Jurnal internasional bereputasi

Amino acid-based surfactant for enhanced scandium (Sc) recovery from red mud: Kinetics and interfacial thermodynamics

ZUHRINA MASYITHAH

2026
Jurnal internasional bereputasi

THE EFFECT OF SULFONATION TEMPERATURE AND TIME ON VCO-BASED METHYL ESTER SULFONATE SYNTHESIS

ZUHRINA MASYITHAH

2026
Jurnal internasional bereputasi

THE EFFECT OF HIBISCUS (Hibiscus tiliaceus L.) LEAF EXTRACTION CONDITIONS AND LIPASE VARIATIONS ON BIODETERGENT CHARACTERISTICS

ZUHRINA MASYITHAH

2026
Jurnal internasional bereputasi

MANUFACTURING ENZYME DETERGENT FROM LIPASE AND METHYL ESTER SULFONATE (MES) WITH THE ADDITION OF SAPONIN EXTRACT FROM MORINGA LEAVES (Moringa oleifera)

ZUHRINA MASYITHAH

2025
Jurnal internasional bereputasi

THE EFFECT OF TEMPERATURE AND STIRRING SPEED ON THE PHYSICOCHEMICAL PROPERTIES OF OIL SPILL DISPERSANT FROM SOYBEAN OIL

ZUHRINA MASYITHAH

2025
Jurnal internasional bereputasi

UTILIZATION OF WATER HENNA LEAF EXTRACT (Impatiens Balsamina L.) BASED ON COCAMID DEA SURFACTANT IN MAKING BIODETERGENT

ZUHRINA MASYITHAH

2025
Jurnal internasional bereputasi

MANUFACTURING DETERGENT USING COCAMIDE-DEA SURFACTANT AND SAPONIN FROM BINAHONG (ANREDERA CORDIFOLIA (TEN) STEENIS) LEAF EXTRACT

ZUHRINA MASYITHAH

2024
Jurnal internasional bereputasi

ANALYSIS OF pH, FOAM STABILITY, AND ANTIOXIDANT ACTIVITY IN SOAP FORMULATION FROM EXTRACT OF PEDADA LEAVES (Sonneratia caseolaris) AND PANDAN LEAVES (Pandanus amaryllifolius)

ZUHRINA MASYITHAH

2024
Jurnal internasional bereputasi

FORMULATION OF LIQUID BIODETERGEN FROM COMBINATION OF STARFRUIT (Averrhoa bilimbi) AND LAURIL-DEA SURFACTANT WITH THE ADDITION OF PROTEASE

ZUHRINA MASYITHAH

2024
Jurnal internasional bereputasi

THE EFFECTIVENESS OF ADDING ANTIOXIDANT COMPOUNDS FROM PEDADA LEAVES EXTRACT (Sonneratia caseolaris) IN ANTISEPTIC SOAP PRODUCTION

ZUHRINA MASYITHAH

2024
Jurnal internasional bereputasi

SYNTHESIS OF ANTIOXIDANT LIQUID SOAP FROM PANDAN LEAF EXTRACT (Pandanus amaryllifolius Roxb.) AND COCAMIDE-DEA

ZUHRINA MASYITHAH

2023
Jurnal nasional terakreditasi

Optimizing Rejected Oranges into Multipurpose Products in Seribu Jandi Village

JUNITA SETIANA GINTING , RUDY SOFYAN , NURZAINAH GINTING , ZUHRINA MASYITHAH

2023
Jurnal internasional bereputasi

SYNTHESIS AND CHARACTERIZATION OF N-ACYL ALKANOLAMIDE SURFACTANT FROM FATTY ACIDS AND ALCOHOL AMINES USING SODIUM METHOXIDE CATALYST

ZUHRINA MASYITHAH

2022
Jurnal internasional bereputasi

OPTIMIZATION OF OCTADECANOIC ACID CONVERSION TO STEAROYL LYSINE SURFACTANT APPLYING BOX BEHNKEN DESIGN

ZUHRINA MASYITHAH

2022
Prosiding seminar internasional

Training for Making a Portable Gas Container in Taduken Raga Biogas Group Sinembah Tanjung Gilir Subdistrict Deli Serdang Regency

NURZAINAH GINTING , TULUS , ZUHRINA MASYITHAH

2022
Jurnal internasional bereputasi

VARIABLES OPTIMIZATION IN SYNTHESIS OF SURFACTANT FROM HEXADECANOIC ACID AND ARGININE USING CCD AND ANOVA METHOD

ZUHRINA MASYITHAH

2022
Prosiding seminar internasional

Nitrate (NO3-) removal from wastewater by adsorption using modified kaolin

AMIR HUSIN , ZUHRINA MASYITHAH

2022
Jurnal nasional terakreditasi

Implementation of Amino Acid as a Natural Feedstock in Production of N-Acylamides as a Biocompatible Surfactants: A Review on Synthesis, Behavior, Application and Scale-up Process

ZUHRINA MASYITHAH

2021
Jurnal internasional bereputasi

THE CONVERSION ENHANCEMENT OF LAURIC ACID TO N-ACYL LYSINE CATALYZED BY CALCIUM OXIDE USING BOX BEHNKEN DESIGN

ZUHRINA MASYITHAH

2020
Jurnal internasional bereputasi

Modeling and optimization of alkyl polyglucoside surfactants from fatty alcohol by response surface methodology

ZUHRINA MASYITHAH

2020
Jurnal internasional bereputasi

Synthesis of Amide-based surfactants from Fatty acid Methyl ester: Effect of solvent ratio and stirring speed

ZUHRINA MASYITHAH

2020
Jurnal internasional bereputasi

Synthesis of fatty ethanolamides from lauric and palmitic acid: Optimization using response surface methodology

ZUHRINA MASYITHAH

2019
Jurnal internasional bereputasi

A two-step catalytic production of Coco Fatty Acid Amide from coconut oil using a metal catalyst

ZUHRINA MASYITHAH

2019
Jurnal internasional bereputasi

Simultaneously trans-esterification and amidification of coconut oil into Cocamide-Dea using heterogeneous catalyst

ZUHRINA MASYITHAH

2019
Jurnal internasional bereputasi

Increased the synthesis of alkanolamide through recovery enzymes and the use of metal catalysts

ZUHRINA MASYITHAH

2018
Jurnal internasional bereputasi

Synthesis of Palmitoyl-Ethanolamide From Palmitic Acid And Monoethanolamine: Analysis of Variance and Surfactant Characteristics

ZUHRINA MASYITHAH

2017
Jurnal internasional bereputasi

Synthesis of Azelaic Acid from Oleic Acid With Green Oxidant H2O2 / H2WO4

ZUHRINA MASYITHAH

2017
Jurnal internasional bereputasi

Optimization of Enzymatic Synthesis of Oleoyl-Diethanolamide in Solvent-Free System

ZUHRINA MASYITHAH

Community Services

2022
KKN Pembelajaran Pemberdayaan Masyarakat

Optimalisasi Buah Jeruk Afkir Menjadi Produk Multiguna di Desa Seribu Jandi

RUDY SOFYAN , NURZAINAH GINTING , JUNITA SETIANA GINTING , ZUHRINA MASYITHAH , ZEFPLIN TARIGAN , ANDREAS , RIO MAROJAHAN NAIBAHO , CORY PATRICIA SIAHAAN , WENDY SANJAYA LINGGA , AGIT SEPRINA TARIGAN , DESNA ULI MATANARI , SAMUEL EGINTA GINTING

2020
Penelitian Dana Lokal Perguruan Tinggi

Pencegahan komprehensif Covid 19 di kelompok peternak susu Kecamatan Namorambe, Kabupaten Deli Serdang

NURZAINAH GINTING , ZUHRINA MASYITHAH

Intellectual Property Rights

2023
Hak cipta nasional

Optimalisasi Buah Jeruk Afkir Menjadi Produk Multiguna Di Desa Seribu Jandi

NURZAINAH GINTING , ZUHRINA MASYITHAH , RUDY SOFYAN , JUNITA SETIANA GINTING