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Prof. Dr. Ir. Renita Manurung, M.T. dilahirkan di Pematangsiantar pada tanggal 14 Desember 1968 merupakan seorang dosen di Universitas Sumatera Utara dengan bidang ilmu Teknik Kimia-Teknologi Proses-Oleokimia. Beliau menyelesaikan pendidikan terakhirnya pada jenjang Doktor (S3) di Fakultas Fakultas Teknik Program Studi Program Studi Ilmu Teknik Kimia Universitas Sumatera Utara pada tahun 2017.

Publications

2025

Prosiding seminar internasional

Extraction of tannin from guava leaves (*Psidium Guajava L*) by soxhletation method and application as iron corrosion inhibitor in sea water medium

RENITA MANURUNG , YUSUF BIMANTORO SIMANUNGKALIT , FITHRAH AMELIA

2022

Jurnal internasional

Utilization of Conventional Battery Framework with Bioelectrolyte Based on Blood Shell and Sugarcane Bagasse

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2021

Prosiding seminar internasional

Usage of eutectic solvents throughout the dehydration reaction of durian seeds (*Durio zibethinus*) in producing 5-hydroxymethylfurfural

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2018

Jurnal internasional bereputasi

Minor component extraction from palm methyl ester using potassium carbonate glycerol based Deep Eutectic Solvent (DES).

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2024

Jurnal internasional bereputasi

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

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2021

Jurnal internasional bereputasi

Production of 5-hydroxymethylfurfural derived cassava peels using deep eutectic solvent based Choline chloride

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2021

Jurnal internasional bereputasi

Synthesis and characterization of sodium silicate produced from corncobs as a heterogeneous catalyst in biodiesel production

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2024

Prosiding seminar internasional

Production of biosurfactant sodium lignosulfonate (NaLS) using elephant grass based lignin (*Pennisetum purpureum*) and NaHSO₃

SYAHRA KHAIRANI LUBIS , WAFI MUFADHAL , RENITA MANURUNG

2022

Jurnal internasional

Synthesis and Characterization of Phosphoric Silica Catalyst from Bamboo Leaves for Production of Triacetin

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2025

Jurnal nasional terakreditasi

Pengaruh Waktu Reaksi Katalis Silika Berbasis Tongkol Jagung Terhadap Densitas Dan Viskositas Biodiesel Sawit

ALWI GERY AGUSTAN SIREGAR , RENITA MANURUNG

2024

Prosiding seminar internasional

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

RENITA MANURUNG

2025

Jurnal internasional bereputasi

Extraction of essential oil from red ginger (*Zingiber officinale* var *rubrum*) by solvent-free microwave extraction method

ALWI GERY AGUSTAN SIREGAR , RENITA MANURUNG

2021

Jurnal internasional bereputasi

Menthol-carboxylic acid deep eutectic solvent for extraction of carotenoids from palm ester

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2021

Jurnal internasional bereputasi

Synthesis of 5-hydroxymethylfurfural from cassava (*Manihot utilissima* pohl) peels through dehydration reaction using deep eutectic solvent based on choline chloride/citric acid

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2022

Jurnal internasional bereputasi

Synthesis and Characterization of Polystyrene Sulfonic Acid from Expanded Polystyrene Foam as a Catalyst in the Synthesis of Triacetin

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2017

Jurnal internasional bereputasi

Crude palm oil biodiesel by transesterification process using choline hydroxide catalyst.

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2022

Jurnal internasional

ESTERIFICATION OF REFINED GLYCEROL BIODIESEL BYPRODUCT USING HETEROGENEOUS CATALYST POLYSTYRENE SULFONIC ACID WASTE-BASED EPS FOAM

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Researches

2024

Penelitian Fundamental

Produksi Mono-Diasilgliserol Sebagai Emulsifier Kompetitif Menggunakan Pelarut Eutectic Sebagai Upaya Mewujudkan Teknologi Ramah Lingkungan

RENITA MANURUNG , DWINA RAHMAYANI HASIBUAN

Community Services

2025

Penelitian Disertasi Doktor

Asesor Akreditasi Program Studi Diploma 3 Teknologi Proses Industri Petrokimia Politeknik Industri Petrokimia Banten Politeknik Industri Petrokimia Banten

DWINA MOENTAMARIA , RENITA MANURUNG

2025

Penelitian Fundamental

Asesor Program Studi Sarjana Teknik Kimia Fakultas Teknik Universitas Syiah Kuala untuk LAM Teknik

MOH. FAHRURROZI , RENITA MANURUNG

2025

Ipteks Bagi Masyarakat

Asesor Akreditasi Program Studi Diploma 3 Teknologi Proses Industri Petrokimia Politeknik Industri Petrokimia Banten Politeknik Industri Petrokimia Banten

DWINA MOENTAMARIA , RENITA MANURUNG

2024

Asesor Program Studi Teknik Kimia ITERA

MOH. FAHRURROZI , RENITA MANURUNG

2025

Ipteks Bagi Masyarakat

Asesor akreditasi Program Studi Magister Teknik Kimia Program Pascasarjana Universitas Muhammadiyah Palembang

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Intellectual Property Rights

2022

Paten nasional

Pembuatan Biodiesel Dari CPO Menggunakan Katalis Heterogen Abu Kulit Markisa

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2022

Paten nasional

Metode Pembuatan Pasta Bioelektrik Dari Limbah Ampas Tebu dan Cangkang Kerang Darah

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