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Meutia Nurfahasdi S.T., M.Sc. was born in Medan on December 16, 1986. She took her bachelor's degree in Chemical Engineering at Universitas Sumatera Utara (USU) and then continued to the master's level at the Universitas Malaysia Perlis (UniMAP). In 2020, Meutia took the Engineer Professional Study Program at Universitas Sumatera Utara. Meutia began working as a Lecturer at the Environmental Engineering Study Program, Faculty of Engineering, Universitas Sumatera Utara from 2017 to the present. In addition, Meutia works at PT. Emesi Consultant as a Drinking Water Expert. Currently, Meutia is also a member of the Indonesian Association of Environmental Engineering (IATPI), the Indonesian Engineers Association (PII), and the Association of Indonesian Environmental Experts (PERTALINDO). Meutia specializes in water treatment, wastewater treatment, and AMDAL.

Publications

2025
Prosiding seminar internasional

Kinetics study of phosphate removal by electrocoagulation

MEUTIA NURFAHASDI , AMIR HUSIN , DENY SUPRIHARTI , ISNAINI FAZAR HASIBUAN , JESSIKA ANASTASIA BR.NAINGGOLAN

2025
Jurnal internasional bereputasi

Response surface methodology application in optimizing mercury removal from leachate via electrocoagulation using an iron electrode

ADE CITRA NADHIRA , ADINDA AZZAHRA PUTRI , SEBY SABRINA , Obid Tursunov , Nodira Begmatova , Shavkat Muzafarov , SILDA ADI RAHAYU , ZAID PERDANA NASUTION , AMIR HUSIN , MEUTIA NURFAHASDI

2025
Jurnal internasional bereputasi

Characterisation and gas chromatography–mass spectrometry analysis of products from pyrolysis of municipal solid waste using a fixed-bed reactor

MEUTIA NURFAHASDI , Obid Tursunov , Islom Karimov , Nurislom Abduganiyev , Dilshod Kodirov , Galina Yuhnevich , Umi Fazara Md. Ali , Alina Rahayu Mohamed , Van-Hao Duong , Kamaliddin Abdivakhidov

2025
Jurnal nasional terakreditasi

How The Effect of Education After Level on COVID-19 Vaccination Status in the Community?

SARAH PATUMONA MANALU , EVAWANY YUNITA ARITONANG , MEUTIA NURFAHASDI , SILDA ADI RAHAYU

2024
Prosiding seminar internasional

Effectiveness of cellulose acetate composite membrane with the addition of zeolite additives to reduce TDS levels in peat water using a cross-flow reactor

AMIR HUSIN , MUHAMMAD TURMUZI , MEUTIA NURFAHASDI

2024
Prosiding seminar internasional

Study of the Use of Aluminum (Al) Electrodes in the Electrocoagulation Method for Reducing COD and BOD in Leachate Water

SEBY SABRINA , ADE CITRA NADHIRA , ADINDA AZZAHRA PUTRI , Alisher Davirov , Rano Tukhtaeva , SILDA ADI RAHAYU , MUHAMMAD FAISAL , MEUTIA NURFAHASDI , AMIR HUSIN

2024
Prosiding seminar internasional

The Effect of Electric Voltage Variation and Flow Rate on Decreasing Remazol Red Rb 133 Dye Levels in a Continuous Electrocoagulation Process

Abdugani Rakhmatov , SEBY SABRINA , Matluba Turayeva , Shirin Yuldosheva , KARTINI NOOR HAFNI , MEUTIA NURFAHASDI , AMIR HUSIN , NOVRIDA HARPAH HASIBUAN

2024
Prosiding seminar internasional

Optimization of Efficiency Mercury (Hg) Removal with Electrocoagulation Using Zinc (Zn) Electrode by RSM Methods

SILDA ADI RAHAYU , MUHAMMAD FAISAL , ADE CITRA NADHIRA , SEBY SABRINA , ADINDA AZZAHRA PUTRI , Abrorbek Shukuraliyev , Iriana Zonggonau , Donyorbek Alijanov , MEUTIA NURFAHASDI , AMIR HUSIN

2023
Prosiding seminar internasional

Mesoplastic contamination in the Deli River Medan: A PreAssessment

MEUTIA NURFAHASDI , AMIR HUSIN , SARAH PATUMONA MANALU , NOVRIDA HARPAH HASIBUAN , ISRA SURYATI

2023
Prosiding seminar internasional

Mapping groundwater vulnerability using drastic method

MEUTIA NURFAHASDI , AGNES YOFITA ZEGA , AGREE MANGANJU EVANNELS SILALAHI , DALLY RAJ SINGH , Aziz Babayev , Shakhlo Aitova

2023
Prosiding seminar internasional

Hydrogeochemical analysis of groundwater in residential areas around the Terjun landfill in Medan city, Indonesia

MEUTIA NURFAHASDI , NETTI HERLINA , SAID MUZAMBIQ , JONATHAN NOVENTINO MANIHURUK , Sherzod Kurambaev , Sharof Musayev

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Jurnal nasional terakreditasi

Studi Kerentanan Air Tanah Di Sekitar TPA Terjun Kota Medan Menggunakan Metode GOD

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2023
Jurnal nasional

Empowering Communities to Improve Behavior Towards Acceptance of Covid-19 Vaccination

MEUTIA NURFAHASDI , SARAH PATUMONA MANALU

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Jurnal nasional terakreditasi

Identification of the Distribution of Leachate in the TPA Terjun, Medan Marelan District, Medan City using the Resistivity 2D Method

SAID MUZAMBIQ , AMIR HUSIN , MEUTIA NURFAHASDI

2023
Prosiding seminar internasional

Kinetics of Cassava Dregs Hydrolysis Using a Dilute-Acid Catalyst

LATHIPAH HANNAH LUBIS , Md Fazlul Bari , AMIR HUSIN , MEUTIA NURFAHASDI , DENY SUPRIHARTI

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Prosiding seminar internasional

Hydro-geochemistry of water in Lake Lau Kawar, Post Eruption of Mount Sinabung using storet methods and pollution index approach in Naman Teran

district, Karo Regency, NorthÂ â¦

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Jurnal nasional terakreditasi

Utilization of Hydrilla Verticillate in the Production of Organic Fertilizer and Horticultural Plant Cultivation in Sungai Ular Village - Secanggang, Langkat Regency, North Sumatera

MEUTIA NURFAHASDI , AULIA RAHMA RITONGA , DILO ANDRIAN LINGGA , SHAKINA AMANDA , JESICA VINA BR PELAWI , TRIE NOVA MARITO SITANGGANG , YERICA MAGDALENA , YASMINE ANGGIA SARI, S.SI.,MT. , NETTI HERLINA

2023
Artikel ilmiah

Utilization of Hydrilla Verticillate in the Production of Organic Fertilizer and Horticultural Plant Cultivation in Sungai Ular Village Secanggang, Langkat Regency, North Sumatera

NETTI HERLINA , AULIA RAHMA RITONGA , MEUTIA NURFAHASDI , YASMINE ANGGIA SARI, S.SI.,MT. , YERICA MAGDALENA , SHAKINA AMANDA , DILO ANDRIAN LINGGA , TRIE NOVA MARITO SITANGGANG , JESICA VINA BR PELAWI

2023
Buku referensi

Pengenalan mengolah data menggunakan spss, eviews, rstudio, jasp, stata & jamovi

PRANA UGIANA GIO , VITA CITA EMIA TARIGAN , ISRA SURYATI , MEUTIA NURFAHASDI

2022
Jurnal nasional terakreditasi

Hubungan Karakteristik Sosial Ekonomi dan Keterpaparan Informasi Kesehatan dengan Penerimaan Vaksinasi Covid-19 pada Masyarakat di Kecamatan Medan Tuntungan

SARAH PATUMONA MANALU , MEUTIA NURFAHASDI , SILDA ADI RAHAYU

2022
Jurnal nasional

Studi Analisis Kualitas Air Lau Borus (Outlet Danau Lau Kawar), Pasca Erupsi Gunung Sinabung Di Kecamatan Naman Teran, Kabupaten Karo, Provinsi Sumatera Utara

MEUTIA NURFAHASDI , SAID MUZAMBIQ , SARAH PATUMONA MANALU

Researches

2025
Penelitian Fundamental

Kajian Risiko Ekologis Dan Kesehatan Terhadap Penggunaan Berbahan Berbahaya Dan Beracun (B3) Jenis Perstisida Di Daerah Pertanian (Studi Kasus : Kecamatan Berastagi)

MEUTIA NURFAHASDI , MEIDINA ZULFA HANIE , NOVRIDA HARPAH HASIBUAN , RAHMI UTAMI

2024

KANSTIN BETON FLY ASH DENGAN LAPISAN TiO2 SEBAGAI PENYERAP EMISI KENDARAAN UNTUK MENGURANGI KADAR NOX DALAM MEWUJUDKAN KOTA HIJAU

MUHAMMAD AGUNG PUTRA HANDANA , SYAHRIZAL , MEUTIA NURFAHASDI , JUAN ALEXANDRO BEBAZATO NDRURU , ALBERT TIMOTHY HUTAGALUNG

2023

Penilaian Indeks Kualitas Air tanah dan Resiko Kesehatan Lingkungan terhadap penggunaan air tanah di sekitar TPA Terjun

KARTINI NOOR HAFNI , AMIR HUSIN , MEUTIA NURFAHASDI , SILDA ADI RAHAYU , NOVRIDA HARPAH HASIBUAN

2022

Penelitian Dosen Pemula

Efisiensi Penyisihan Merkuri (Hg) Pada Air Lindi Di TPA Terjun dengan Metode Elektrokoagulasi Menggunakan Elektroda Besi (Fe)

ZAID PERDANA NASUTION , AMIR HUSIN , MEUTIA NURFAHASDI , SILDA ADI RAHAYU , ADE CITRA NADHIRA , ADINDA AZZAHRA PUTRI , SEBY SABRINA

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Penelitian Fundamental

PENELITIAN HIDROGEOKIMIA AIR DANAU LAU KAWAR, PASCA ERUPSI GUNUNG SINABUNG DENGAN METODE STORATE DAN INDEX POLLUTAN (IP) DI KECAMATAN NAMO TERAN, KABUPATEN KARO PROVINSI SUMATERA UTARA

MEUTIA NURFAHASDI , SAID MUZAMBIQ , NETTI HERLINA , MUTIARA FIRANTY

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Pengembangan Bata Interlock Fly Ash (BIFA) Sebagai Selubung Bangunan yang Mendukung Efisiensi Energi

MUHAMMAD AGUNG PUTRA HANDANA , SYAHRIZAL , MEUTIA NURFAHASDI

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Penelitian Fundamental

APLIKASI PROSES ELEKTROKOAGULASI UNTUK PENGHILANGAN FOSFAT DALAM LIMBAH CAIR BUATAN

AMIR HUSIN , MEUTIA NURFAHASDI , DENY SUPRIHARTI , ISNAINI FAZAR HASIBUAN , JESSIKA ANASTASIA BR.NAINGGOLAN

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Hubungan Karakteristik Sosial Ekonomi Dan Keterpaparan Informasi Kesehatan Dengan Penerimaan Vaksinasi Covid-19 Pada Masyarakat Di Kecamatan Medan Tuntungan

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Analisis Penurunan Kualitas Air Sungai oleh Makro, Meso dan Mikro Plastik dari Pemukiman di Sepanjang Aliran Sungai Deli Medan

ISRA SURYATI , MEUTIA NURFAHASDI , NOVRIDA HARPAH HASIBUAN , SARAH PATUMONA MANALU , JOVIE SIHAR SIMANGUNSONG , EYZEKITA REPIANSA , DHEA SYAFIRA , RIFA SALSABILA

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Penelitian Dosen Pemula

How The Effect of Education After Level on COVID19 Vaccination Status in the Community

MEUTIA NURFAHASDI , EVAWANY YUNITA ARITONANG

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Penelitian Fundamental

Penelitian Hidrogeokimia Air Danau Lau Kawar, Pasca Erupsi Gunung Sinabung Dengan Metode Storate Dan Index Pollutan (Ip) Di Kecamatan Namo Teran, Kabupaten Karo Provinsi Sumatera Utara

MEUTIA NURFAHASDI

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Penelitian Fundamental

Penelitian Hidrogeokimia Air Danau Lau Kawar, Pasca Erupsi Gunung Sinabung Dengan Metode Storate Dan Index Pollutan (Ip) Di Kecamatan Namo Teran, Kabupaten Karo Provinsi Sumatera Utara

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Belanja Jasa Tenaga Ahli Sub Kegiatan Pengelolaan Pelayanan Kesehatan Lingkungan

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Revitaslisasi Ekosistem Pesisir Sebagai Upaya Mitigasi Banjir Di Desa Pasar Rawa Kecamatan Gebang Kabupaten Langkat

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Surat Tugas Penyusunan DED

MEUTIA NURFAHASDI , Nurul Fauziah

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PENGOLAHAN LIMBAH PADAT TERINTEGRASI BERBASIS MAGGOTS BLACK FLIES SOLDIER DI LEMBAGA PEMASYARAKATAN NARKOTIKA KELAS II A LANGKAT

KARTINI NOOR HAFNI , REISYA ICHWANI , MEUTIA NURFAHASDI , ADRI HUDA , RAFI EKA DZAKY , ANNISA HERMILA NASUTION , SHOFIAH ADAWIYAH SIGALINGGING

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PENGUATAN DAN PEMBERDAYAAN MASYARAKAT PEMERHATI DAN PENGGUNA FASILITAS PEMANFAATAN LIMBAH NON B3 BIOMASSA DI DESA TADUKAN RAGA, KABUPATEN DELI SERDANG

MEUTIA NURFAHASDI , IRVAN , INDRA SURYA , OKTA BANI , DELLA SRI KRISTINA PASARIBU , DEBORA KRISTINA SIMBOLON , MUHAMMAD ZINIDDIN ZIDAN ZAIYAT , VANDRIA ALAMSYAH , PUTRI KHODIJAH

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Perancangan dan Pelatihan Penggunaan Mesin Penggiling Bumbu kepada Masyarakat Kelompok Petani Desa Besar II Terjun Kecamatan Pantai Cermin Kabupaten Serdang Bedagai

NISMAH PANJAITAN , ISRA SURYATI , MEUTIA NURFAHASDI , SYAFRUDDIN HS

2022

Ipteks Bagi Masyarakat

PEMANFAATAN HYDRILLA VERTICILLATE DALAM PEMBUATAN PUPUK ORGANIK DAN BUDIDAYA TANAMAN HORTIKULTURA DI DESA SUNGAI ULAR KECAMATAN SECANGGANG KABUPATEN LANGKAT

AULIA RAHMA RITONGA , MEUTIA NURFAHASDI , NETTI HERLINA , YASMINE ANGGIA SARI, S.SI.,MT. , YERICA MAGDALENA , TRIE NOVA MARITO SITANGGANG , DILO ANDRIAN LINGGA , JESICA VINA BR PELAWI , SHAKINA AMANDA

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Penelitian Dosen Pemula

PEMBERDAYAAN MASYARAKAT UNTUK MENINGKATKAN PERILAKU TERHADAP PENERIMAAN VAKSINASI COVID-19

MEUTIA NURFAHASDI , SARAH PATUMONA MANALU