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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

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2026

Jurnal internasional bereputasi

### **Enhanced removal of mercury from leachate using electrocoagulation: Reaction kinetics**

MEUTIA NURFAHASDI , AMIR HUSIN , MUHAMMAD TURMUZI , HAFIZHUL KHAIR A.M. , MAY MADHU I MANIK , Ilkhomjon Siddikov , Barno Daminova , Odil Pirimov , Dilbar Mirzarakhetova , Husniddin Arzikulov5

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

### **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

Jurnal nasional terakreditasi

### **Analisis dan Pemetaan Tingkat Kebisingan di Kawasan Kampus Universitas Sumatera Utara**

SILDA ADI RAHAYU , HAFIZHUL KHAIR A.M. , MEUTIA NURFAHASDI , ITA NOVITA NAINGGOLAN

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

## **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

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

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 SILALAH , DALLY RAJ SINGH , Aziz Babayev , Shakhlo Aitova

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## **Zoning groundwater vulnerability in residential areas around the Terjun landfill using the aplis method**

MEUTIA NURFAHASDI , HAFIZHUL KHAIR A.M. , AMIR HUSIN , MUHAMMAD TURMUZI , JULIUS KRISTOPEL TANJUNG , Elyor Atashev , Abdugani Rakhmatov

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

MEUTIA NURFAHASDI , SARAH PATUMONA MANALU

2023

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## **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

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## **Kinetics of Cassava Dregs Hydrolysis Using a Dilute-Acid Catalyst**

DENY SUPRIHARTI , AMIR HUSIN , MEUTIA NURFAHASDI

2023

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## **Kinetics of Cassava Dregs Hydrolysis Using a Dilute-Acid Catalyst**

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

2023

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

AMIR HUSIN , MEUTIA NURFAHASDI , SAID MUZAMBIQ

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**

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

2021

Penelitian Fundamental

## **APLIKASI PROSES ELEKTROKOAGULASI UNTUK PENGHILANGAN FOSFAT DALAM LIMBAH CAIR BUATAN**

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

2021

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

MEUTIA NURFAHASDI , SILDA ADI RAHAYU , SARAH PATUMONA MANALU

2021

## **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 , EYZEKITA REPIANSA , JOVIE SIHAR SIMANGUNSONG , 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**

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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**

## Community Services

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### **SURAT PERINTAH TUGAS ASESOR**

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### **Belanja Jasa Tenaga Ahli Sub Kegiatan Pengelolaan Pelayanan Kesehatan Lingkungan**

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### **Revitalisasi Ekosistem Pesisir Sebagai Upaya Mitigasi Banjir Di Desa Pasar Rawa Kecamatan Gebang Kabupaten Langkat**

MUNIR TANJUNG , MEUTIA NURFAHASDI , NOVRIKA HARPAH HASIBUAN , SARAH PATUMONA MANALU

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### **Surat Tugas Penyusunan DED**

MEUTIA NURFAHASDI , Nurul Fauziah

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### **UKL-UPL RSUD**

MEUTIA NURFAHASDI

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2023

### **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 , DEBORA KRISTINA SIMBOLON , PUTRI KHODIJAH , VANDRIA ALAMSYAH , MUHAMMAD ZINIDDIN ZIDAN ZAIYAT , DELLA SRI KRISTINA PASARIBU

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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

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2021

Penelitian Dosen Pemula

### **PEMBERDAYAAN MASYARAKAT UNTUK MENINGKATKAN PERILAKU TERHADAP PENERIMAAN VAKSINASI COVID-19**

MEUTIA NURFAHASDI , SARAH PATUMONA MANALU

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