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## Publications

2026

Jurnal internasional bereputasi

### **High stability and performance of organic pollutant removal using PVDF-TiO<sub>2</sub> fabricated by non-solvent induced phase separation process**

ADRI HUDA , IAN KURNIAWAN , DUI YANTO RAHMAN , REISYA ICHWANI , MUHAMMAD TURMUZI , MUHAMMAD IQBAL RAHMAN , FARQAD HANAFI , KAYLA AURORA ALIFIA , AYUTRI SURYANA , ANDERA LESTARI

2026

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### **transforming pyrolytic char from non-recycled domestic plastic waste into high-performance mesoporous char for competitive dyes adsorption system**

SAHARMAN GEA , ADRI HUDA , REISYA ICHWANI , IAN KURNIAWAN , HAFIZHUL KHAIR A.M. , TARMIZI TAHER , CHANEL TRI HANDOKO , FRILAZYNSKI FITRIULI NAOMI SAKURA SIMANJUNTAK , ANNISA HERMILA NASUTION , KAYLA AURORA ALIFIA , Universiti Sains Malaysia

2025

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### **The investigation of pyrolytic char quality from mixed non-recycling plastic waste and its thermal treatment through secondary thermal pyrolytic process to activate as an adsorbent for tetracycline pollutant removal**

ADRI HUDA , REISYA ICHWANI , HAFIZHUL KHAIR A.M. , NETTI HERLINA , MEUTIA NURFAHASDI , TARMIZI TAHER , CHANEL TRI HANDOKO , FRILAZYNSKI FITRIULI NAOMI SAKURA SIMANJUNTAK , ANNISA HERMILA NASUTION

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### **Evaluation of the leachate treatment system from the Terjun Landfill based on toxicity values using goldfish (*Cyprinus carpio* L.) and water fleas (*Daphnia* sp.) as test organisms**

NOVRIDA HARPAH HASIBUAN , YASMINE ANGGIA SARI , S.Si.,MT. , SILDA ADI RAHAYU , HAFIZHUL KHAIR A.M. , AMIR HUSIN , KARTINI NOOR HAFNI , ADRI HUDA , CINTY RANI SIMARMATA , YANA MARCELLA SIKELTA PURBA

2025

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### **Management of B3 Waste (Used Oil) in Two-wheeled Vehicle Workshops in Medan Barat District**

SARAH PATUMONA MANALU , NOVRIDA HARPAH HASIBUAN , SILDA ADI RAHAYU , ADRI HUDA

2025

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### **High selectivity and efficient microwave-assisted reflux tin oxide synthesis controlled by acidity environments and its photocatalytic degradation toward Acid Yellow 17**

ADRI HUDA , JULI NOVITA SARI , MEIDINA ZULFA HANIE , REISYA ICHWANI , RICHA FIONASARI , KARTINI NOOR HAFNI , Noor Haida Mohd Kaus

2024

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# Low Temperature Thermal Activation of Sarulla Natural Zeolite for Ammonia Removal Using Fixed Bed Column Adsorption Process

ADRI HUDA , AMIR HUSIN , FRIDAY H.U ARUAN

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## Ammonia Adsorption Process using Sarulla Natural Zeolite from North Sumatera, Indonesia

NETTI HERLINA , ADRI HUDA , SARAH PATUMONA MANALU , AMIR HUSIN , FRIDAY H.U ARUAN

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## Geophysical and Geochemical Approach for Seawater Intrusion Assessment in the Belawan Coast and the Medan Industrial Area, North Sumatera Utara, Indonesia

ADRI HUDA , NOVRIDA HARPAH HASIBUAN , MAYA SARAH , HAFIZHUL KHAIR A.M. , SAID MUZAMBIQ

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## Geophysical and Geochemical Approach for Seawater Intrusion Assessment in the Belawan Coast and the Medan Industrial Area, North Sumatera Utara, Indonesia

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## Techno-economic assessment of residential and farm-based photovoltaic systems

ADRI HUDA , IAN KURNIAWAN , Aryansyah , RICHA FIONASARI , KHAIRUL FAHMI PURBA , REISYA ICHWANI

2023

Buku referensi

## Teknologi Pengolahan Air Limbah

ADRI HUDA

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Buku referensi

## Teknologi Pengolahan Air Limbah

IAN KURNIAWAN , ADRI HUDA

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## Visible light-driven photoelectrocatalytic degradation of acid yellow 17 using Sn<sub>3</sub>O<sub>4</sub> flower-like thin films supported on Ti substrate (Sn<sub>3</sub>O<sub>4</sub>/TiO<sub>2</sub>/Ti)

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### **Fabrikasi Material Membran Fotokatalis Polyvinylidene Fluoride (PVDF)-NanoTiO<sub>2</sub> untuk Reduksi Antibiotik menggunakan Reaktor Cross Flow**

IAN KURNIAWAN , DUI YANTO RAHMAN , ADRI HUDA , FARQAD HANAFI

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### **Simulasi Daya Tampung Beban Pencemaran dengan Model Water Quality Analysis Simulation Program (Studi Kasus: Sungai Deli Segmen Hulu - Tengah)**

MEIDINA ZULFA HANIE , ADRI HUDA , NOVRIIDA HARPAH HASIBUAN , MUHAMMAD FAISAL , ZIDAN GUSNA PRATAMA , AFIQA RAIHAN NASUTION

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### **Fotodegradasi limbah organik cair dengan material heterovalensi Timah oksida (SnxOx+1) teraktifkan sinar tampak sebagai teknologi ramah lingkungan**

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### **Program Bersih Sehat Pulih: Intervensi Cepat Sanitasi Kesehatan dan Dukungan Psikososial dalam Penanggulangan Krisis Banjir Kabupaten Langkat**

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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 , SHOFIAH ADAWIYAH SIGALINGGING , RAFI EKA DZAKY , ANNISA HERMILA NASUTION

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