

# Indah Revita Saragi

Dosen Program Studi S1 Kimia  
Fakultas Matematika Dan Ilmu Pengetahuan Alam  
Universitas Sumatera Utara

🏢 Fakultas Matematika dan Ilmu Pengetahuan Alam

🌐 [fmipa.usu.ac.id/id/dosen/indah-revita-saragi](http://fmipa.usu.ac.id/id/dosen/indah-revita-saragi)

*Indah Revita Saragi, S.Si., M.Si dilahirkan di Medan pada tanggal 31 Desember 1992. Beliau merupakan seorang dosen Kimia di Universitas Sumatera Utara. Beliau menyelesaikan pendidikan terakhirnya yakni S2 Kimia di Universitas Indonesia pada tahun 2019.*

## Publications

2024

Jurnal internasional bereputasi

### **Activated carbon from biomass waste candlenut shells (*Aleurites moluccana*) doped ZIF-67/Fe<sub>3</sub>O<sub>4</sub> as advanced materials for supercapacitor**

MUHAMMADIN HAMID , INDAH REVITA SARAGI , SYAHRUL HUMAIDI

2020

Prosiding seminar internasional

### **Synthesis of hierarchical Fe<sub>2</sub>O<sub>3</sub>/ZSM-5 from natural minerals as catalyst in partial oxidation of bio-methane**

INDAH REVITA SARAGI

2024

Jurnal internasional bereputasi

### **Optimization of g-C<sub>3</sub>N<sub>4</sub> nanoparticles on structural, morphological, and optical properties as organic pollutants adsorbent in glycerin**

NURSAL , INDAH REVITA SARAGI , MUHAMMADIN HAMID

2024

Jurnal internasional bereputasi

### **Preparation, characterization and decomposition test on Tapanuli organoclay reinforced cellulose acetate/cellulose acetate butyrate blend composites**

INDAH REVITA SARAGI , LISNA JUNAENI MUIZ , Ariadne Lakshmidewi , Yuni Krisyuningsih

2019

Prosiding seminar internasional

### **Synthesis and characterization HY zeolite from natural aluminosilicate for n-hexadecane cracking**

INDAH REVITA SARAGI

2020

Jurnal nasional terakreditasi

### **ZnO/SiO<sub>2</sub> Composite as Catalyst for the Transformation of Glycerol to Glycerol Carbonate**

INDAH REVITA SARAGI

2019

Jurnal internasional bereputasi

### **Synthesis and characterization of crystalline NaY-Zeolite from Belitung Kaolin as catalyst for n-Hexadecane cracking**

INDAH REVITA SARAGI

2020

Prosiding seminar internasional

# **Bangka Kaolin and Bayat Zeolite-based ZSM-5 zeolite as heterogeneous catalyst for hexadecane cracking reaction**

INDAH REVITA SARAGI

2022

Jurnal internasional bereputasi

## **Preparation, characterization, and desalination study of polystyrene membrane integrated with zeolite using the electrospinning method**

YUAN ALFINSYAH SIHOMBING , SUSILAWATI , INDAH REVITA SARAGI , RINI HARDIYANTI , MUHAMMAD ZULHAM EFENDI SINAGA

2025

Jurnal internasional bereputasi

## **Study of Ammonium Adsorption Mechanism in Hydrothermalized Pahae Natural Zeolites: Kinetic and Isotherm Adsorption, and Thermodynamics**

YUAN ALFINSYAH SIHOMBING , SUSILAWATI , ARIF NURYAWAN , Nanang Masruchin , Mutia Irma , ANDRIAYANI , INDAH REVITA SARAGI

2018

Prosiding seminar internasional

## **Synthesis and Characterization of Zeolite NaY from kaolin Bangka Belitung with variation of synthesis composition and crystallization time**

INDAH REVITA SARAGI

2021

Jurnal internasional bereputasi

## **Synthesis of oleic-imidazoline and investigation on its inhibition efficiency for the corrosion of low carbon steel in chloride environments**

INDAH REVITA SARAGI

2023

Prosiding seminar internasional

## **The characterization of Pahae Natural Zeolite and its application on ammonium removal**

INDAH REVITA SARAGI , YUAN ALFINSYAH SIHOMBING , SUSILAWATI , ANDRIAYANI , ARIF NURYAWAN

2023

Jurnal internasional bereputasi

## **Eco-benign synthesis of nano-gold chitosan-bacterial cellulose in spent ground coffee kombucha consortium: Characterization, microbiome community, and biological performance**

INDAH REVITA SARAGI , ANDY CANDRA

2026

Jurnal nasional terakreditasi

## **Preparation and Characterization of Mesoporous Zeolite from Natural Zeolite Using Tandem Acid-Base Treatments**

INDAH REVITA SARAGI , Devi Yanti

2021

Book chapter internasional

## **Advanced Functional Porous Materials**

INDAH REVITA SARAGI

2023

Jurnal internasional bereputasi

## **Fabrication and characterization of hybrid eco-friendly high methoxyl pectin/gelatin/TiO<sub>2</sub>/curcumin (PGTC) nanocomposite biofilms for salmon fillet packaging**

INDAH REVITA SARAGI , ANDY CANDRA

2019

Book chapter internasional

## **Biogas- Recent Advanced and Integrated Approaches**

INDAH REVITA SARAGI

2021  
Jurnal internasional bereputasi

## **The new challenge of partial oxidation of methane over Fe<sub>2</sub>O<sub>3</sub>/NaY and Fe<sub>3</sub>O<sub>4</sub>/NaY heterogeneous catalysts**

INDAH REVITA SARAGI

2020  
Prosiding seminar internasional

## **Synthesis of metal organic framework (MOF) using lanthanum and yttrium metals with succinate acid ligand as adsorbent for cadmium(II) metal ion**

INDAH REVITA SARAGI

2023  
Jurnal internasional bereputasi

## **Eco-benign synthesis of nano-gold chitosan-bacterial cellulose in spent ground coffee kombucha consortium Characterization, microbiome community, and biological performance**

INDAH REVITA SARAGI

2024  
Jurnal nasional terakreditasi

## **Developing Graphitic Carbon Nitride for Effective Treatment of Organic Pollutants in Industrial Water**

NURSAL , MUHAMMADIN HAMID , INDAH REVITA SARAGI

2020  
Jurnal nasional terakreditasi

## **Natural Aluminosilicate-based Y Zeolite for Catalytic Cracking of n-Hexadecane**

INDAH REVITA SARAGI

2020  
Prosiding seminar internasional

## **Synthesis and characterization of Fe<sub>2</sub>O<sub>3</sub>/HY from kaolin as catalysts in the partial oxidation reaction of methane to methanol**

INDAH REVITA SARAGI

2019  
Jurnal nasional terakreditasi

## **Grass-Like Structured Mesoporous Carbon as an Acid Red 119 Dye Adsorbent**

INDAH REVITA SARAGI

## **Researches**

2024  
Ipteks

## **Preparasi dan Karakterisasi Komposit Selulosa Asetat/Selulosa Asetat Butirat Komposit yang Diperkuat Organoclay Tapanuli**

INDAH REVITA SARAGI , LISNA JUNAENI MUIZ , Ariadne Lakshmidewi

2025  
Kerjasama Luar Negeri dan Publikasi Internasional

## **Pemanfaatan Nanopartikel Sb-CdSe dalam Sel Surya Tersensitisasi Semikonduktor untuk Konversi Energi Surya**

INDAH REVITA SARAGI , ANDY CANDRA , SITI UTARI RAHAYU , Chiu-Hsien Wu

2025  
Kerjasama Luar Negeri dan Publikasi Internasional

## **Pemanfaatan Nanopartikel Sb-CdSe dalam Sel Surya Tersensitisasi Semikonduktor untuk Konversi Energi Surya**

INDAH REVITA SARAGI , ANDY CANDRA , SITI UTARI RAHAYU , OFIN HASRAT LASE , MUTIARA PUTRI ZANNAH , Chiu-Hsien Wu

2022

# Filter Amonium Berbasis Zeolit Alam Pahae Dengan Metode Hidrothermal Sebagai Pereduksi Amonium Pada Limbah Greywater

SUSILAWATI , INDAH REVITA SARAGI , ANDRIAYANI , YUAN ALFINSYAH SIHOMBING

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## Community Services

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2025

Ipteks

### **Pengabdian Proyek PINTAR: Belajar Sains dan Teknologi dari Mesin Pemilah Sampah Tanpa Ribet (PINTAR) di Yayasan Hasballah Syam Medan**

INDAH REVITA SARAGI

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2024

Ipteks Bagi Masyarakat

### **Edukasi Pemanfaatan Limbah Kelapa Sawit menjadi Bioplastik di Sekolah Indonesia Bangkok, Thailand**

INDAH REVITA SARAGI

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2024

Ipteks Bagi Masyarakat

### **Optimizing GC3N4 Synthesis For Enhanced Photocatalytic Degradation Of Organic Pollutants**

MUHAMMADIN HAMID , INDAH REVITA SARAGI , NURSAL

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2025

Ipteks Bagi Masyarakat

### **Proyek PINTAR: Belajar Sains dan Teknologi dari Mesin Pemilah Sampah Tanpa Ribet (PINTAR) di Yayasan Hasballah Syam Medan**

INDAH REVITA SARAGI , SURI MUTIA SIREGAR , SITI UTARI RAHAYU

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