Dr.Eng. Ir. Hafizhul Khair AM, S.T., M.T.

Lecturer of Undergraduate Program in Environmental Engineering Study Program
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Universitas Sumatera Utara

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USU Faculty of Engineering

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Dr. Eng. Hafizhul Khair A. M, S.T., M.T was born in Padang on August 12, 1987. He is an Environmental Engineering lecturer at Universitas Sumatera Utara. He completed his doctoral degree in the Environment and Resources Systems Study Program at The University Of Kitakyushu, Japan, in 2019.

Publications

2026
Prosiding seminar internasional

Strategies for Rainwater and Waste Management as Flood Mitigation Efforts in Residential Areas of Medan City

NOVRIAL , HAFIZHUL KHAIR A.M. , ELIMASNI , Putri Wulandari

2026
Jurnal nasional terakreditasi

Penguatan Peran Kelompok Masyarakat Dalam Krisis Iklim: Studi Komunitas Bank Sampah Berbasis GEDSI

ROSMALINDA , MAHMUL SIREGAR , AGUSMIDAH , ADE CANDRA , HAFIZHUL KHAIR A.M. , HAYATUNNUFUS , MOHAMMAD EKAPUTRA

2026
Jurnal internasional bereputasi

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

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

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 Mirzarakhmetova , Husniddin Arzikulov5

2026
Jurnal internasional bereputasi

Processing wood twig waste into biomass pellets using cassava-peel-based natural binders

ZAID PERDANA NASUTION , YASMINE ANGGIA SARI, S.SI.,MT. , HAFIZHUL KHAIR A.M. , ADRI HUDA , SARAH PATUMONA MANALU

2026
Jurnal internasional bereputasi

Multi-Stakeholder Synergy in Waste Management Toward a Clean and Sustainable North Sumatra

ZAID PERDANA NASUTION , VITA CITA EMIA TARIGAN , HAFIZHUL KHAIR A.M. , DR AFRIADI SANUSI , ODING AFFANDI

2026
Jurnal internasional bereputasi

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

2025
Jurnal internasional bereputasi

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
Hasil penelitian/pemikiran yang tidak dipublikasikan

Strategi Pengelolaan Air Hujan melalui Sumur Laluan dan Pengelolaan Sampah sebagai Upaya Mitigasi Genangan Banjir untuk Keberlanjutan Lingkungan

NOVRIAL , HAFIZHUL KHAIR A.M. , ELIMASNI

2025
Jurnal nasional terakreditasi

Tsunami Disaster Mitigation Based on Eco-Action and Community Participation in Katapiang Village, Pariaman

HAFIZHUL KHAIR A.M. , DEVI YULIDA , MAHMUD MULYADI , VITA CITA EMIA TARIGAN

2025
Jurnal nasional terakreditasi

Tsunami Disaster Mitigation Based on Eco-Action and Community Participation in Katapiang Village, Pariaman

VITA CITA EMIA TARIGAN , HAFIZHUL KHAIR A.M. , DEVI YULIDA , ARYANI ATIYATUL AMRA

2025
Artikel ilmiah

Material Flow Analysis of Solid Waste Management System in Medan City

IRA RUMIRIS HUTAGALUNG , HAFIZHUL KHAIR A.M. , INDRIYANI RACHMAN , TORU MATSUMOTO

2025
Jurnal internasional bereputasi

Potential exposure to metals-bound particulate during open burning of different waste materials

HAFIZHUL KHAIR A.M.

2024
Jurnal nasional terakreditasi

Analysis of Existing Area, Clean Water Treatment, and Distribution Network Evaluation in Nagari Magek, Agam Regency, West Sumatra

DENDI ADI SAPUTRA , HAFIZHUL KHAIR A.M. , RAHMI UTAMI , 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

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

2024
Prosiding seminar internasional

Geophysical and Geochemical Approach for Seawater Intrusion Assessment in

the Belawan Coast and the Medan Industrial Area, North Sumatera Utara, Indonesia

SAID MUZAMBIQ , MAYA SARAH , HAFIZHUL KHAIR A.M. , ADRI HUDA , NOVRIDA HARPAH HASIBUAN , ANTI FADILAH NASUTION , MULIANA FUDAILA , MUHAMMAD VIRZA FATHULLAH

2024
Prosiding seminar internasional

A Preliminary Analysis of Heavy Metals Consentration on Existing Mesoplastic in a Tropical River: Study Cases in Deli River

NOVRIDA HARPAH HASIBUAN , ISRA SURYATI , HAFIZHUL KHAIR A.M. , ZAID PERDANA NASUTION , MEUTIA NURFAHASDI , DHEA SYAFIRA

2023
Prosiding seminar internasional

Pyrolysis of polypropylene plastic waste: An analysis of oil quantity, density, viscosity, and calorific value

BAYU LISTIANY , RAHMI UTAMI , HAFIZHUL KHAIR A.M.

2023
Prosiding seminar internasional

Study of the Effectiveness of Using Natural Gas as an Effort to Reduce Conventional Emission Load at Gas and Steam Power Plant in Medan City

HAFIZHUL KHAIR A.M. , ISRA SURYATI , YOHANA BETARIA PERMATA SAMOSIR , Suyanto , Randy Zulkarnain

2023
Prosiding seminar internasional

The relevancy-analysis of air quality index to Acute Respiratory Infection (ARI) in A landfill site of Medan

HAFIZHUL KHAIR A.M. , DELFITRI MUNIR , ISRA SURYATI , M. Ichwan , T KEMALA INTAN , NONI NOVISARI SOEROSO

2023
Prosiding seminar internasional

Analyzing the performance of cyclones and scrubbers as air pollution control methods for household solid waste incinerator

HAFIZHUL KHAIR A.M. , TAUFIQ BIN NUR , ISRA SURYATI , RAHMI UTAMI

2023
Prosiding seminar internasional

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

2023
Prosiding seminar internasional

Assessment of microplastic on tropical tidal lake waters in Medan (study cases-Siombak lake)

HAFIZHUL KHAIR A.M. , ISRA SURYATI , YASMINE ANGGIA SARI, S.SI.,MT. , NOVRIDA HARPAH HASIBUAN , SARAH PATUMONA MANALU

2023
Jurnal internasional bereputasi

Potential Risks of Open Waste Burning at the Household Level: A Case Study of Semarang, Indonesia

HAFIZHUL KHAIR A.M.

2023
Prosiding seminar internasional

Application of unmanned aerial vehicle for monitoring tourism waste

HAFIZHUL KHAIR A.M. , EVANA BR PASARIBU , GRACE LORDYE PA , UNIKA SARI NAIBAHO , RAHMI UTAMI

2023
Jurnal nasional terakreditasi

Application of UAV for Village Mapping in Pangambatan, Sumatra Utara

GRACE LORDYE PA , RAHMI UTAMI , HAFIZHUL KHAIR A.M. , SILDA ADI RAHAYU

2023

Tulisan ilmiah

Geotourism and Rural Development, Baktiraja Subsub-District: Case Study Toba Caldera Area Humbang Hasundutan Regency

HAFIZHUL KHAIR A.M. , GUSTANTO , SAID MUZAMBIQ

2023
Jurnal internasional bereputasi

Potential Risks of Open Waste Burning at the Household Level: A Case Study of Semarang, Indonesia

HAFIZHUL KHAIR A.M. , BIMASTYAJI SURYA RAMADAN , INDRIYANI RACHMAN , Syafrudin , MUNAWIR

2023
Jurnal internasional bereputasi

Analysis of Factors Influencing Illegal Waste Dumping Generation Using GIS Spatial Regression Methods

HAFIZHUL KHAIR A.M.

2023
Jurnal nasional terakreditasi

Capacity Building in Response of Tidal Floods in Belawan II, North Sumatra

HAFIZHUL KHAIR A.M. , RAHMI UTAMI , ARLIZA JUAIRIANI LUBIS

2023
Prosiding seminar internasional

Using Black Soldier Fly to treat organic waste from the restaurant

ISRA SURYATI , HAFIZHUL KHAIR A.M. , RAHMI UTAMI

2022
Prosiding seminar internasional

Cleanliness assessment of Lake Toba tourist attractions from stakeholders' perspective

HAFIZHUL KHAIR A.M. , RAHMI UTAMI

2022
Prosiding seminar internasional

Assessment of macro litter in Deli River Medan during pandemic COVID-19

ZAID PERDANA NASUTION , AMIR HUSIN , NOVRIDA HARPAH HASIBUAN , SARAH PATUMONA MANALU , ISRA SURYATI , MEUTIA NURFAHASDI , HAFIZHUL KHAIR A.M.

2021
Prosiding seminar internasional

A preliminary study of a landfill as a raw material for RDF: a case study in Medan City

RAHMI UTAMI , HAFIZHUL KHAIR A.M.

2021
Prosiding seminar internasional

Study on solid waste generation in Lake Toba area

HAFIZHUL KHAIR A.M. , ISRA SURYATI , RAHMI UTAMI , RONALD LEONARDO SIREGAR

2021
Prosiding seminar internasional

Solid waste management in Lake Toba area

RONALD LEONARDO SIREGAR , HAFIZHUL KHAIR A.M. , ISRA SURYATI , RAHMI UTAMI

2020
Jurnal nasional

Application of ultraviolet light as an indoor disinfectant

HAFIZHUL KHAIR A.M.

2020
Jurnal nasional terakreditasi

PARTICIPATION OF LEADERS AND COMMUNITY IN SOLID WASTE MANAGEMENT IN INDONESIA TO REDUCE LANDFILL WASTE LOAD

HAFIZHUL KHAIR A.M.

2020

Jurnal nasional terakreditasi

Pengembangan Sistem Pengelolaan Sampah Kawasan Wisata Pantai Kota Pariaman dengan Pendekatan Reduce-Reuse-Recycle

HAFIZHUL KHAIR A.M.

2019
Jurnal internasional

Environmental and Economic Assessment of Solid Waste Bank Activities in Indonesia: a Case Study of Medan City

HAFIZHUL KHAIR A.M.

2019
Jurnal nasional terakreditasi

Material Flow Analysis of Waste Bank Activities in Indonesia: Case Study of Medan City

HAFIZHUL KHAIR A.M.

2019
Jurnal internasional bereputasi

Analyzing household waste generation and its composition to expand the solid waste bank program in Indonesia: a case study of Medan City

HAFIZHUL KHAIR A.M.

2019
Makalah ilmiah

Study of household solid waste generation and composition in Medan City, Indonesia; A case study in Medan Labuhan and Medan Tuntungan

HAFIZHUL KHAIR A.M.

2018
Jurnal internasional bereputasi

Analysis of Air Quality Index Distribution of PM10 and O3 Concentrations in Ambient Air of Medan City, Indonesia

ISRA SURYATI , HAFIZHUL KHAIR A.M.

2018
Makalah ilmiah

Flood prediction, its risk and mitigation for the Babura River with GIS

HAFIZHUL KHAIR A.M.

2018
Makalah ilmiah

Examining of solid waste generation and community awareness between city center and suburban area in Medan City, Indonesia

HAFIZHUL KHAIR A.M.

2017
Jurnal nasional

Perancangan sistem sanitasi lingkungan di posko bencana Sinabung Konco Kecamatan Tigan Derket

HAFIZHUL KHAIR A.M.

2017
Jurnal nasional terakreditasi

Pemanfaatan Titanium Dioxide pada Trotoar untuk Mengurangi Gas Pencemar NOx di Udara

HAFIZHUL KHAIR A.M.

2017
Jurnal nasional

Pengaruh Aerasi Bertingkat dengan Kombinasi Saringan Pasir, Karbon Aktif, dan Zeolit dalam Menyisihkan Parameter Fe dan Mn dari Air Tanah di Pesantren Ar-Raudhatul Hasanah

HAFIZHUL KHAIR A.M.

2017

Makalah ilmiah

Analisis Mitigasi Banjir di Daerah Aliran Sungai Babura Berbasis Sistem Informasi Geografis (SIG)

HAFIZHUL KHAIR A.M.

2017
Jurnal nasional

Pengaruh Aerasi Bertingkat dengan Kombinasi Saringan Pasir, Karbon Aktif, dan Zeolit dalam Menyisihkan Parameter Fe dan Mn dari Air Tanah di Pesantren Ar-Ra...

HAFIZHUL KHAIR A.M.

2017
Makalah ilmiah

Mapping air quality index of carbon monoxide (CO) in Medan city

HAFIZHUL KHAIR A.M. , ISRA SURYATI

2016
Jurnal nasional

ANALISIS ISOPHLET KONSENTRASI DAN ESTIMASI POTENSI PENURUNAN KARBON MONOKSIDA DI KOTA MEDAN

HAFIZHUL KHAIR A.M. , ISRA SURYATI

2026
Jurnal internasional bereputasi

The relevancy-analysis of air quality index to Acute Respiratory Infection (ARI) in A landfill site of Medan

HAFIZHUL KHAIR A.M.

Researches

2025
Penelitian Dana Lokal Perguruan Tinggi

Persepsi Masyarakat Terhadap Kepuasan Pengembangan Pariwisata Bekelanjutan di Kecamatan Pangururan, Indonesia.

HAFIZHUL KHAIR A.M. , NURLISA , WAHYUNI ZAHRAH , JULIZA HIDAYATI , BENY OCTOFRYANA YOUSCA MARPAUNG

2025

Pengembangan Model Insinerator Hibrida untuk Sampah Tercampur Indonesia

HAFIZHUL KHAIR A.M. , ISRA SURYATI , RAHMI UTAMI , TAUFIQ BIN NUR

2024

Strategi Pengelolaan Sampah Plastik Perkotaan di Indonesia

HAFIZHUL KHAIR A.M. , NURUL MAWADDAH , ISRA SURYATI , BIMASTYAJI SURYA RAMADAN , NOVRIDA HARPAH HASIBUAN , RAHMI UTAMI

2024

PENELITIAN RANCANGAN SISTEM DAN RISET PRODUK TURUNAN SERTA POTENSI KOMERSIALISASI DARI PENGOLAHAN SAMPAH DOMESTIK USU MENUJU ZERO WASTE

ZAID PERDANA NASUTION , HAFIZHUL KHAIR A.M. , ADE CANDRA

2024

Rancangan Sistem dan Riset produk Turunan Serta Potensi Komersialisasi Dari pengolahan Sampah Domestik USU menuju Zero Waste

ZAID PERDANA NASUTION , HAFIZHUL KHAIR A.M.

2022
Ipteks Bagi Inovasi Kreativitas Kampus

RESEARCH OF GROUNDWATER QUALITY BASED ON GEOELECTRICAL AND HYDROGEOCHEMICAL PARAMETERS AROUND PESISIR BELAWAN IN

MEDAN CITY, INDONESIA

HAFIZHUL KHAIR A.M. , SAID MUZAMBIQ , MAYA SARAH , MULIANA FUDAILA , ANTI FADILAH NASUTION , MUHAMMAD VIRZA FATHULLAH

2022

Pemanfaatan Unmanned Aerial Vehicle, Deep Learning, dan Transect Survey untuk Pemetaan Pencemaran Lingkungan di 3 Kota Besar di Indonesia

HAFIZHUL KHAIR A.M.

2022

Research Of Groundwater Quality Based On Geoelectrical And Hydrogeochemical Parameters Around Pesisir Belawan In Medan City, Indonesia

HAFIZHUL KHAIR A.M. , SAID MUZAMBIQ , MAYA SARAH , MULIANA FUDAILA , ANTI FADILAH NASUTION , MUHAMMAD VIRZA FATHULLAH

2022
Penelitian Kerjasama Antar Perguruan Tinggi

Pemanfaatan Unmanned Aerial Vehicle, Deep Learning, dan Transect Survey untuk Pemetaan Pencemaran Lingkungan di 3 Kota Besar di Indonesia

HAFIZHUL KHAIR A.M. , Syafrudin , MUNAWIR

2021
Penelitian Unggulan Perguruan Tinggi

Perancangan pengolahan sampah teknologi termal untuk skala komunitas

HAFIZHUL KHAIR A.M. , ISRA SURYATI , TAUFIQ BIN NUR

2021

Perancangan pengolahan sampah teknologi termal untuk skala komunitas

HAFIZHUL KHAIR A.M. , ISRA SURYATI , TAUFIQ BIN NUR

2021

Model Pemetaan Daerah Rawan Banjir Rob untuk Langkah Mitigasi di Wilayah Medan Utara

HAFIZHUL KHAIR A.M. , AHMAD PERWIRA MULIA TARIGAN

2020
Penelitian Dosen Pemula

Pemanfaatan Larva Black Soldier Fly (Hermatia Ollucens) Dalam Pengolahan Sampah Pasar dan Restoran

HAFIZHUL KHAIR A.M. , ISRA SURYATI

2016
Penelitian Dosen Pemula

Pemetaan Kualitas Udara Ambien di Kota Medan

HAFIZHUL KHAIR A.M. , ISRA SURYATI

Community Services

2026
Ipteks Bagi Masyarakat

Sinergi Multi Pihak dalam Pengelolaan Sampah Menuju SUMUT Bersih dan Berkelanjutan

ZAID PERDANA NASUTION , HAFIZHUL KHAIR A.M. , VITA CITA EMIA TARIGAN , YASMINE ANGGIA SARI, S.SI.,MT. , ODING AFFANDI

2025
Ipteks Bagi Masyarakat

Mitigasi Bencana Tsunami Berbasis Eco-Action dan Partisipasi Masyarakat di Nagari Katapiang, Pariaman (USU-UNAND)

HAFIZHUL KHAIR A.M. , VITA CITA EMIA TARIGAN , DEVI YULIDA , MAHMUD MULYADI , FERDI

2025

Ipteks

Strategi Pengelolaan Air Hujan Melalui Sumur Laluan Dan Pengelolaan Sampah Sebagai Upaya Mitigasi Genangan Banjir Untuk Keberlanjutan Lingkungan

ELIMASNI , HAFIZHUL KHAIR A.M. , NOVRIAL

2025

PELAKSANA PEKERJAAN JASA KONSULTANSI UNTUK MERANCANG PEMBANGUNAN RENDAH KARBON DAERAH DAN RENCANA AKSI DAERAH BERKETAHANAN IKLIM UNTUK PROVINSI SUMATERA UTARA

ZAID PERDANA NASUTION , HAFIZHUL KHAIR A.M. , ISRA SURYATI , MEIDINA ZULFA HANIE

2024

Laporan Indeks Kualitas Lingkungan Hidup Kabupaten Langkat Tahun 2024

HAFIZHUL KHAIR A.M. , ISRA SURYATI

2024

Ipteks Bagi Masyarakat

Uji Emisi Kenderaan Bermotor Dalam Ramgka Mendukung Kegiatan Green Campus di Sumatera Utara

HAFIZHUL KHAIR A.M. , KARTINI NOOR HAFNI , RONALD LEONARDO SIREGAR , SAID MUZAMBIQ , RAHMI UTAMI , SARAH PATUMONA MANALU

2024

Kajian Pemanfaatan Sumur Laluan (Ground Water Recharge) Dalam Upaya Mengurangi Genangan Air di Kota Medan

HAFIZHUL KHAIR A.M. , AHMAD PERWIRA MULIA TARIGAN , NOVRIAL

2024

Ipteks Bagi Masyarakat

Pekerjaan Survey Investigasi dan Desain Optimasi Lahan Rawa di Kabupaten Langkat

ADINA SARI LUBIS , HAFIZHUL KHAIR A.M. , M RIDWAN ANAS , NURUL IKA PUTRI DALIMUNTHE , ANDY PUTRA RAMBE , MEUTIA NURFAHASDI , EMMA PATRICIA BANGUN , MUHAMMAD FAISAL , RAHMI UTAMI , SARAH PATUMONA MANALU , DERRY WILIYANDA NASUTION

2023

PEMBERDAYAAN MASYARAKAT DESA DALAM MENGATASI MASALAH KUALITAS AIR BERSIH MENUJU DESA YANG BERKELANJUTAN (STUDI KASUS NAGARI MAGEK, KAB. AGAM SUMATERA BARAT)

HAFIZHUL KHAIR A.M. , DENDI ADI SAPUTRA , SILDA ADI RAHAYU , RAHMI UTAMI , AGUNG PRADANA , FAUZIAH KHAIRUNNISA , MUHAMMAD HIRZI AULIA , MUHAMMAD ADLI , GALUH BUNAYA IRVANI

2023

DED Peningkatan Sta KA, Jembatan, Jalur KA Antara Belawan – Ujung Baru Lintas Medan – Belawan – Ujung Baru

MUHAMMAD AGUNG PUTRA HANDANA , HAFIZHUL KHAIR A.M. , AHMAD PERWIRA MULIA TARIGAN , MOHAMMAD DOLOK LUBIS , EMILIA KADRENI , IVAN INDRAWAN , N VINKY RAHMAN , IRWAN SURANTA SEMBIRING , FIRMAN EDDY , WAHYU ABDILLAH , RAHMI UTAMI , NOVRIAL

2023

Ipteks Bagi Masyarakat

UJI EMISI KENDARAAN BERMOTOR DALAM RANGKA MENDUKUNG KEGIATAN GREEN CAMPUS DI UNIVERSITAS SUMATERA UTARA

HAFIZHUL KHAIR A.M. , KARTINI NOOR HAFNI , ISRA SURYATI , RONALD LEONARDO SIREGAR , SAID MUZAMBIQ , RAHMI UTAMI , SARAH PATUMONA MANALU

2022

Ipteks Bagi Masyarakat

Sosialisasi Dan Edukasi Mitigasi Bencana Banjir Lahar Dingin Gunung Sinabung di Kecamatan Tiganderket, Kabupaten Karo Provinsi Sumatera Utara

ZAID PERDANA NASUTION , HAFIZHUL KHAIR A.M. , SAID MUZAMBIQ , YEMIMA TRININA BANGUN

2022

KAJIAN IDENTIFIKASI, KOMPOSISI DAN KARAKTERISTIK SAMPAH KOTA

MEDAN (DLH KOTA MEDAN)

HAFIZHUL KHAIR A.M. , ISRA SURYATI , SILDA ADI RAHAYU , RAHMI UTAMI

2022
Ipteks Bagi Masyarakat

Sosialisasi Dan Edukasi Mitigasi Bencana Banjir Lahar Dingin Gunung SinabungDi Kecamatan Tiganderket, Kabupaten Karo Provinsi Sumatera Utara

GUSTANTO , HAFIZHUL KHAIR A.M.

2021

Pemanfaatan UAV Untuk Pemetaan Desa Pangambatan Dalam Rangka Pengembangan Wisata Yang Berkelanjutan

HAFIZHUL KHAIR A.M. , SILDA ADI RAHAYU , RAHMI UTAMI

2021

Peningkatan Kapasitas Tanggap Bencana Banjir Rob pada Kelompok PKK Kelurahan Belawan II

ARLIZA JUAIRIANI LUBIS , HAFIZHUL KHAIR A.M. , RAHMI UTAMI

2021
Ipteks Bagi Masyarakat

Geowisata Dan Pengembangan Pedesaan Kecamatan Baktiraja Studi Kasus : Kawasan Kaldera Toba Kabupaten Humbang Hasundutan Provinsi Sumatera Utara

GUSTANTO , HAFIZHUL KHAIR A.M. , SAID MUZAMBIQ , Mikael Manalu

2020
Ipteks Bagi Masyarakat

Pemanfaatan Teknologi Lampu Ultraviolet Sebagai Pengendali Keberadaan Virus dalam Ruangan

HAFIZHUL KHAIR A.M. , ISRA SURYATI , RAHMI UTAMI

2019
Ipteks Bagi Masyarakat

Pentingnya Pendidikan Masyarakat Dan Interpretasi Dalam Konservasi Dan Geoheritage Kaldera Toba Provinsi Sumatera Utara(The Importance of Public Education and Interpretation in the Conservation of Geoheritage Toba Caldera)

HAFIZHUL KHAIR A.M. , SAID MUZAMBIQ , Waden Nainggolan

2016
Ipteks Bagi Masyarakat

Pengabdian Masyarakat Mono Tahun USU-Penerapan Teknologi Penjernihan Air Bersih dan DIstribusi Air Bersih untuk Konsumsi Terdampak Erupsi Gunung Sinabung dan Santri/Wati Pesantren (Studi Kasus: Posko Pengungsian Gudang Konco/Terong Peren dan Pesantrren Ar-Raudlatul Hasanaj)

HAFIZHUL KHAIR A.M. , AHMAD PERWIRA MULIA TARIGAN , ISRA SURYATI

2015
Ipteks Bagi Masyarakat

Pengabdian Masyarakat Mono Tahun USU-Penerapan Teknologi Penjernihan Air dan Distribusi Air Bersih untuk Konsumsi Masyarakat Desa Pasca Erupsi Gunung Sinabung (Studi Kasus: Desa Jandi Meriah dan Desa Kuta Mbaru, Kecamatan Tiganderket, Kabupaten Karo)

HAFIZHUL KHAIR A.M. , AHMAD PERWIRA MULIA TARIGAN , ISRA SURYATI

2015
Ipteks Bagi Kewirausahaan

Pengabdian Masyarakat Mono Tahun USU-Teknologi Tepat Guna Bagi Usaha Home Industri Sabun Cuci Piring Cair (Studi Kasus: Kelurahan Berngam, Kecamatan Binjai Kota, Kota Binjai, Sumatera Utara)

HAFIZHUL KHAIR A.M. , KARTINI NOOR HAFNI , ISRA SURYATI

Intellectual Property Rights

2026
Hak cipta nasional

Persepsi Masyarakat Terhadap Kepuasan Pengembangan Pariwisata Berkelanjutan di Kecamatan Pangururan, Indonesia

NURLISA , BENY OCTOFRYANA YOUSCA MARPAUNG , JULIZA HIDAYATI , HAFIZHUL KHAIR A.M. , WAHYUNI ZAHRAH

2026
Hak cipta nasional

STRATEGI PENGELOLAAN SAMPAH KOTA SECARA SINERGIS UNTUK MEWUJUDKAN LINGKUNGAN BERSIH DAN SEHAT

ZAID PERDANA NASUTION , ODING AFFANDI , YASMINE ANGGIA SARI, S.SI.,MT. , VITA CITA EMIA TARIGAN , HAFIZHUL KHAIR A.M.

2026
Hak cipta nasional

Policy Brief

VITA CITA EMIA TARIGAN , ZAID PERDANA NASUTION , ODING AFFANDI , YASMINE ANGGIA SARI, S.SI.,MT. , HAFIZHUL KHAIR A.M.

2023
Hasil penelitian/pemikiran yang tidak dipublikasikan

Alat Pengolahan Air Bersih

RAHMI UTAMI , SILDA ADI RAHAYU , HAFIZHUL KHAIR A.M.

2023
Paten nasional

Alat Pengendali Untuk Penyisihan Gas Buang dari Insinerator Sampah Rumah Tangga

TAUFIQ BIN NUR , RAHMI UTAMI , JONATHAN SAMUEL LUBIS , JOSE ALEXANDER SATRIO SIGALINGGING , BATARA TAMADO SILALAHI , HAFIZHUL KHAIR A.M. , ISRA SURYATI

2023
Paten nasional

Kandang Black Soldier Fly (BSF) Terintegrasi Untuk Pengolahan Limbah Padat Organik Restoran

HAFIZHUL KHAIR A.M.