

Prof. Dr. Eng. Ir. Irvan, M.Si.

Dosen Program Studi S2 Teknik Kimia
Fakultas Teknik
Universitas Sumatera Utara

✉ irvan@usu.ac.id

🌐 ft.usu.ac.id/id/dosen/irvan

Prof. Dr. Eng. Ir. Irvan, M.Si. dilahirkan di Tebing Tinggi pada tanggal 20 Agustus 1968 dan merupakan seorang dosen Kimia di Universitas Sumatera Utara. Beliau menyelesaikan pendidikan terakhirnya, yakni S3 Environment and Life Eng., di Toyohashi University of Technology, Jepang, pada tahun 1996.

Publications

2026

Jurnal internasional bereputasi

One-Pot Synthesis of 3D ZnO@ g-C₃N₄: A Multifunctional Composite for Efficient Photocatalysis and Advanced Membrane-Assisted Dye Purification

R Y PERRY BURHAN , Tutuk Djoko Kusworo , IRVAN , CININTA NARESWARI , NILA DAMAYANTI , Mohd Hafiz Dzarfan Othman , TRIYANDA GUNAWAN , LUKMAN ATMAJA , ARDI NUGROHO YULIANTO

2024

Jurnal internasional bereputasi

Effect of hydraulic retention time and effluent recycle ratio on biogas production from POME using UASB-HCPB fermentor assisted with ultrafiltration membrane at mesophilic condition

BAMBANG TRISAKTI , RIVALDI SIDABUTAR , IRVAN

2024

Jurnal internasional bereputasi

Treatment of effluent from the upflow anaerobic sludge blanket-hollow centered packed bed fermentor by utilizing Chlorella vulgaris in a fed-batch system

OKTA BANI , VIKRAM ALEXANDER , JUAN AKMAL NASUTION , PUTRI KHODIJAH , RIVALDI SIDABUTAR , IRVAN , BAMBANG TRISAKTI

2024

Jurnal internasional bereputasi

CO₂ absorption using aqueous potassium carbonate (K₂CO₃) promoted by piperazine (PZ) in packed column reactor

BAMBANG TRISAKTI , TAUFIQ BIN NUR , HANI SUHASTIFA RAMBE , IRVAN , MUHAMMAD SIGIT CAHYONO , MUHAMMAD NOVIANSYAH ARIDITO

2023

Jurnal internasional bereputasi

Variations of Organic Loading Rate on Tofu Wastewater Degradation using Upflow Anaerobic Sludge Blanket Reactor by Modified Stover-Kincannon Model

FATIMAH , MUHAMMAD TURMUZI , IRVAN

2023

Jurnal internasional bereputasi

Variations of Organic Loading Rate on Tofu Wastewater Degradation using Upflow Anaerobic Sludge Blanket Reactor by Modified Stover-Kincannon Model

IRVAN

2022

Prosiding seminar internasional

Utilization of effluent biodigester as a bioactivactor for the decomposition of rice husk (*Oryza sativa*) into compos

IRVAN

2022

Jurnal internasional bereputasi

Advanced method for clean water recovery from batik wastewater via sequential adsorption, ozonation and photocatalytic membranePVDF-TiO₂/rGO processes

IRVAN , Tutuk Djoko Kusworo

2021

Jurnal internasional bereputasi

Waste management optimization in banda aceh: Towards a zero-waste city

ERMAN MUNIR , IRVAN

2020

Prosiding seminar internasional

Potential of durian, avocado and jackfruit seed as raw material of bioethanol: A review

SERI MAULINA , MUHAMMAD HENDRA S GINTING , ERNI MISRAN , IRVAN

2019

Buku referensi

Pemanfaatan Tandan Kosong Kelapa Sawit Sebagai Media Jamur dan Biogas di Kab. Deli Serdang

IRVAN

2018

Artikel ilmiah

Implementation of zero waste concept in waste management of Banda Aceh City

ERMAN MUNIR , IRVAN

2018

Artikel ilmiah

The integrating of zero waste principles from national to local regulations: Case study of Banda Aceh, Indonesia

IRVAN , ERMAN MUNIR

2018

Jurnal internasional

The Effect of Organic Loading Rate Variation on Digestion of Tofu Wastewater using PVC Rings as Growth Media in a Hybrid UASB Reactor

FATIMAH , MUHAMMAD TURMUZI , IRVAN , NYIMAS YANQORITHA

2014

Jurnal nasional

Pengaruh waktu tinggal terhadap reaksi hidrolisis pada pra-pembuatan biogas dari limbah cair pabrik kelapa sawit

DR IRIANY, IR, MSC , IRVAN

Researches

2023

Penelitian Fundamental

Upgrading Biogas melalui Absorpsi CO₂ menggunakan K₂CO₃ Berpengaktif Monosodium Glutamat pada Reaktor Packed Column

IRVAN

2024

Pemberdayaan Masyarakat Lokal disekitar Pabrik Sawit melalui Integrasi Pengolahan Limbah Cair Sawit dan Tandang Kosong pada produksi Biogas Skala Rumah Tangga dan Budidaya Jamur Merang di Desa Tadukan Raga Kecamatan STM Hilir Kabupaten Deli Serdang

FATIMAH , IRVAN , INDRA SURYA , MERSI SURIANI SINAGA

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

2019

Peningkatan wawasan karir bagi anak SMA Unggulan di Gunung Sitoli

RIKA ELIANA , SAHARMAN GEA , MAYA SILVI LYDIA , IRVAN

2013

Penelitian Unggulan Perguruan Tinggi

Pengaruh Pengurangan Konsentrasi Trace Metal dan Penyetabil pH Terhadap Produksi

2013

Penelitian Strategis Nasional

Otomatisasi Pabrik Konversi Limbah Cair Pabrik Kelapa Sawit (LCPKS) Menjadi Bio
