

Prof. Bode Haryanto, S.T., M.T., Ph.D.

Dosen Program Studi S2 Teknik Kimia
Fakultas Teknik
Universitas Sumatera Utara

✉ bode.haryanto@usu.ac.id

🌐 ft.usu.ac.id/id/dosen/bode-haryanto

Bode Haryanto telah membawa puluhan mahasiswa go internasional melalui publikasi terindeks Scopus. Melakukan penelitian hal surfaktan dan aplikasi, natural drying, teknologi adsorpsi, energi produktivitas rasio, dll. Saat ini, beliau sedang menjabat sebagai kepala laboratorium OTK.

Publications

2020

Prosiding seminar internasional

Effect of Reaction Time on Biodiesel Production from Palm Fatty Acid Distillate by Using PTSA as a Catalyst

BODE HARYANTO , RONDANG TAMBUN

2021

Artikel ilmiah

Utilization of charcoal rambutan (Nephelium Sp.) adsorbent to remove dissolved copper (II) by natural batch operation

MUHAMMAD TURMUZI , ERNI MISRAN , BODE HARYANTO

2024

Jurnal internasional bereputasi

The effect of vacuum process on biodiesel production from palm kernel fatty acid distillate

BODE HARYANTO , RONDANG TAMBUN

2024

Jurnal internasional bereputasi

Comparison of the Carrier Compound Capabilities of Silica Gel, Amberlite XAD-2 and DEAE Sephadex A-50 in the Immobilization Process of the Lipase Enzyme in the Hydrolysis Reaction of Palm Olein (Elaeisis guineensis)

FBA FITRIANI , RONDANG TAMBUN , BODE HARYANTO , Vikram Alexander

2024

Prosiding seminar internasional

Comparison of natural corn cob and carbon corn cob in the purification of used cooking oil with shaker operation

RICHARD FELIX JONATHAN SINAGA , SILVIA VERONIKA BR SEMBIRING , ASTRINA HUTABARAT , VIKRAM ALEXANDER , RONDANG TAMBUN , BODE HARYANTO

2025

Jurnal internasional bereputasi

Comparison of column adsorption processes by downflow and upflow for removal of cupric (Cu²⁺) ion solutions using non activated and activated charcoal from rambutan (Nephelium lappaceum L.) stems

BODE HARYANTO , HAMIDAH HARAHAP

2023

Jurnal internasional bereputasi

Comparison of adsorbing on dissolved copper metal by Natural and Activated Carbon from Rambutan (Nephelium Sp.) Rods

VIKRAM ALEXANDER , KRISANDARTA TARIGAN , BODE HARYANTO

2022

Jurnal internasional

Research Activities From Home During Coronavirus Disease (Covid) 19: Drying Kinetic Study Of Ginger (*Zingiber Officinale* Rosc.) Naturally (Natural Drying)

BODE HARYANTO , MAYA SARAH

2023

Jurnal nasional terakreditasi

Pengaruh Perbedaan Ukuran dan Massa Adsorben Pelepah Sawit Teraktivasi dalam Pemurnian Minyak Jelantah Menggunakan Metode Shaker

BODE HARYANTO , DWI ANNISA FITHRY

2024

Jurnal internasional bereputasi

Durian Peel (*Durio zibethinus*) Utilization as an Adsorbent in the Purification of Acidified Crude Glycerol

VIKRAM ALEXANDER , DANIEL REYMONDO MANURUNG , ADOLF PARASIAN RITONGA , RONDANG TAMBUN , BODE HARYANTO

2023

Jurnal internasional bereputasi

Remediation of contaminated sand by Cd ions with variation operation: Batch and flushing column with foam and without foam of SDS surfactant

SISWARNI MZ , RONDANG TAMBUN , BODE HARYANTO

2024

Prosiding seminar internasional

The effect of drying temperature and material thickness on the drying characteristics and drying kinetics of curcuma drying using an oven

ROSDANELLI HASIBUAN , VIQRY PRAMANANDA , M. TAUFAN ANANTAMA RKT , BODE HARYANTO

2024

Prosiding seminar internasional

Effect of methanol purity on biodiesel production from lauric acid using esterification reaction

ANGGARA DWITA BURMANA , VIKRAM ALEXANDER , MAYA SARAH , RONDANG TAMBUN , BODE HARYANTO

2023

Jurnal internasional

Synthesis of nano-CaO catalyst with SiO₂ matrix based on palm shell ash as catalyst support for one cycle developed in the palm biodiesel process

RENITA MANURUNG , ROSDANELLI HASIBUAN , BODE HARYANTO

2023

Jurnal internasional bereputasi

Recycling heterogeneous catalyst waste in biodiesel production using methanol and hydrochloric acid: A case study on the washing effect with lauric acid as raw material

RONDANG TAMBUN , BODE HARYANTO , MAYA SARAH

2021

Artikel ilmiah

Natural Batch Adsorption Operation to Remove Dissolved Copper (II) by Carbon Charcoal Rambutan

RONDANG TAMBUN , HAMIDAH HARAHAHAP , BODE HARYANTO

2024

Jurnal nasional terakreditasi

Pemurnian Minyak Jelantah Menggunakan Adsorben Natural Dari Pelepah Sawit dengan Perbedaan Ukuran Mesh dan Massa

RIZKI AFFANDI , ASTRINA HUTABARAT , ANGGUN FEBRISMA , DWI ANNISA FITHRY , BODE HARYANTO

2023

Prosiding seminar internasional

Environmental sustainability through the utilization of corn cobs as an

adsorbent material in waste cooking oil

ILHAM TAUFIK NASUTION , Aflah fadliani polem , OKTAVIA MERTA SITOANG , VIKRAM ALEXANDER , RONDANG TAMBUN , BODE HARYANTO , ZUHRINA MASYITHAH

2021

Artikel ilmiah

Drying kinetics on mass reduction with natural operation of potatoes as simulation model

BODE HARYANTO

2024

Jurnal internasional bereputasi

SDS and TX-100 performance in removing Cd ion from contaminated sand in flushing column

BODE HARYANTO , RONDANG TAMBUN , VIKRAM ALEXANDER , TUBAGUS RAYYAN FITRA SINUHAJI , Chien-Hsiang Chang

2014

Jurnal internasional bereputasi

Foam-enhanced removal of adsorbed metal ions from packed sands with biosurfactant solution flushing

BODE HARYANTO

2014

Jurnal internasional bereputasi

Application of biosurfactant surfactin on copper ion removal from sand surfaces with continuous flushing technique

BODE HARYANTO

2023

Jurnal internasional bereputasi

STUDY ON ADSORPTION CAPACITY OF CORN STALKS IN DECREASING THE TURBIDITY OF BABURA RIVER WATER WITH BATCH OPERATION

BODE HARYANTO , FATIMAH

2025

Prosiding seminar internasional

Drying Characteristics of Red Ginger Using Tray Dryer Integrated with Biomass Pyrolysis Reactor

ROSDANELLI HASIBUAN , BODE HARYANTO , VIQRY PRAMANANDA , FATIMAH FAHIRA SIREGAR , RISMA FAZILLAH , Aainaa Izyan Nafsun

2024

Prosiding seminar internasional

Surface characteristic carbon Rambutan using SEM/EDX and FTIR as natural adsorbent and activation HNO₃

HAMIDAH HARAHAP , BODE HARYANTO

2020

Prosiding seminar internasional

Stay Home Practical: Simulation Model On Ginger As The Samples On Dryer Naturally Operation Module

BODE HARYANTO , RINA BR BUKIT

2024

Prosiding seminar internasional

Purification of used cooking oil using natural corn cob and carbon corn cob as adsorbent with batch operation

LIANNA NESSIE HUTAGAOL , MAULIA FAZIRA , NATANIA CHRISTY SIANTURI , JESSIKA SEPTI PUSPA SITORUS , VIKRAM ALEXANDER , BODE HARYANTO

2024

Jurnal nasional terakreditasi

Perbedaan Massa dan RPM Terhadap Adsorben Karbon Pelepah Sawit pada Pemurnian Minyak Jelantah

BODE HARYANTO , RIZKI AFFANDI , DWI ANNISA FITHRY , ANGGUN FEBRISMA , ASTRINA HUTABARAT

2021
Artikel ilmiah

Simulation of natural drying kinetics of carrot (*Daucus carota* L) on thickness variation

BODE HARYANTO

2020
Prosiding seminar internasional

Adsorption interaction model of adsorbents white sand with heavy metals cadmium (Cd^{2+}) naturally

BODE HARYANTO , MUHAMMAD TURMUZI , ERNI MISRAN

2023
Jurnal internasional bereputasi

Natural adsorbent of corncob (*Zea mays* L.) powder capability in purification of used cooking oil with shaking operation based on turbidity

BODE HARYANTO , RONDANG TAMBUN

2020
Jurnal internasional bereputasi

Adsorbing on Dissolved Copper Metal by Charcoal Rambutan Rods

RONDANG TAMBUN , BODE HARYANTO

2023
Jurnal internasional bereputasi

Corn stalk (*Zea mays*) modified by nitrate acids (HNO_3) to adsorb dissolved copper ions (Cu^{+2}) in adsorption column

RONDANG TAMBUN , BODE HARYANTO

2021
Jurnal internasional bereputasi

CORN STALK (*Zea mays* L.) ABILITY IN REMOVING DISSOLVE HEAVY METAL CADMIUM ION (II) IN CONTINUOUS ADSORPTION COLUMN (DOWN FLOW)

BODE HARYANTO , SISWARNI MZ , RONDANG TAMBUN

2021
Artikel ilmiah

Stay home practical: Effect of thickness and environmental conditions on drying kinetics of radish as the samples

BODE HARYANTO , RINA BR BUKIT

2025
Jurnal internasional bereputasi

Competence of corncob (*Zea mays* L.) powder with HCl activation as adsorbent to purify waste cooking oil: Reference in the batch adsorption process

RONDANG TAMBUN , BODE HARYANTO

2024
Jurnal internasional bereputasi

Reusability of amberlyst CM-4 catalyst through continuous methanol washing with nitrogen gas in biodiesel production using lauric acid as feedstock

RONDANG TAMBUN , BODE HARYANTO , VIKRAM ALEXANDER , ANGGARA DWITA BURMANA , MAYA SARAH

2015
Jurnal internasional bereputasi

Removing adsorbed heavy metal ions from sand surfaces via applying interfacial properties of rhamnolipid

BODE HARYANTO

2023
Prosiding seminar internasional

Natural operation in removing waste compounds within cooking oil using corn cob as adsorbent

RONDANG TAMBUN , ANELLA PELAWI , OCTAVIA , STEPHANIE YOSEPHA SIDAURUK , VIKRAM ALEXANDER , BODE HARYANTO , ERNI MISRAN

2024
Jurnal internasional bereputasi

Drying of red ginger slices using tray dryer integrated with pyrolysis reactor as a heat source: Evaluation on the drying characteristics, red ginger quality, and drying kinetics

ROSDANELLI HASIBUAN , BODE HARYANTO , VIQRY PRAMANANDA , FATIMAH FAHIRA SIREGAR , RISMA FAZILLAH , Aainaa Izyan Nafsun

2024
Jurnal internasional bereputasi

Effect of Radish (*Raphanus Sativus L.*) Height on Natural Drying Characteristics and Mathematical Modeling

BODE HARYANTO , CLAUDYA ELYSABETH SIMAMORA , VIKRAM ALEXANDER , RICHARD FELIX JONATHAN SINAGA

2024
Jurnal internasional bereputasi

Comparison of the Carrier Compound Capabilities of Silica Gel, Amberlite XAD-2 and DEAE Sephadex A-50 in the Immobilization Process of the Lipase Enzyme in the Hydrolysis Reaction of Palm Olein (*Elaeisis guineensis*)

BODE HARYANTO , FBA FITRIANI , VIKRAM ALEXANDER , RONDANG TAMBUN

2024
Jurnal internasional bereputasi

An investigation shell and tube heat exchanger for cooling system: A case study of biodiesel plants using lauric acid

BODE HARYANTO , VIKRAM ALEXANDER , ANGGARA DWITA BURMANA , RONDANG TAMBUN , MAYA SARAH

2020
Prosiding seminar internasional

Simulation model on the potato as the samples on the dryer operation module with thickness variation

RINA BR BUKIT , BODE HARYANTO

2024
Prosiding seminar internasional

Surface characteristic carbon Rambutan using SEM/EDX and FTIR as natural adsorbent and activation HNO₃

BODE HARYANTO , HAMIDAH HARAHAP , SOFYAN EFENDI SARAGIH , TUBAGUS RAYYAN FITRA SINUHAJI , KRISANDARTA TARIGAN

2024
Prosiding seminar internasional

Application of soursop leaves (*Annona muricata L.*) as an iron corrosion inhibition in sodium chloride medium

RONDANG TAMBUN , BODE HARYANTO , VIKRAM ALEXANDER , YAMANIEL GINTING

2024
Prosiding seminar internasional

Utilization of natural and chemical activation corncob as adsorbent for continuous purification of used cooking oil using adsorption column

BODE HARYANTO , RONDANG TAMBUN , VIKRAM ALEXANDER , JASMINE WINARTA , GRACE IVANA BATSEBA BRM TARIGAN , JEREMIA TOGI CHRISTIAN SIADARI

2020
Prosiding seminar internasional

Planting media with material composition variation of Sinabung sand using mechanic press toll

AHMAD PERWIRA MULIA TARIGAN , RINA BR BUKIT , BODE HARYANTO

2024
Prosiding seminar internasional

Practical from home on drying operation module with cucumber as the sample

MARVINO BRAYN TARIGAN , NATASYA ARIHTA BR SITEPU , TUBAGUS RAYYAN FITRA SINUHAJI , RINA BR BUKIT , BODE HARYANTO

2020
Prosiding seminar internasional

Adsorption capacity of heavy metal cadmium using white sand as adsorbent

BODE HARYANTO

Researches

2018

Ipteks Bagi Masyarakat

Batang jagung sebagai Adsorben menyerap Logam terlarut

BODE HARYANTO , SISWARNI MZ , RONDANG TAMBUN

2021

Penelitian Fundamental

Adsorbent Karbon Batang Rambutan

BODE HARYANTO

2021

Penelitian Fundamental

KINETIKA PENGERING SECARA ALAMI: KENTANG SEBAGAI MODEL SAMPEL

BODE HARYANTO

2022

Penelitian Unggulan Perguruan Tinggi

Pemanfaatan Tongkol Jagung Sebagai Adsorben dalam Pemurnian Minyak Jelantah: Adsorben alami dan Teraktivasi

BODE HARYANTO , RONDANG TAMBUN

2020

Penelitian Fundamental

PENGERING SECARA ALAMI DARI RUMAH: JAHE SEBAGAI MODEL SAMPEL

BODE HARYANTO , RINA BR BUKIT

2021

Penelitian Fundamental

KARBON BATANG RAMBUTAN SEBAGAI ADSORBEN PENYERAP LOGAM TERLARUT

BODE HARYANTO , RONDANG TAMBUN , HAMIDAH HARAHAP

2020

Ipteks Bagi Masyarakat

Pengeringan Alami

BODE HARYANTO

2020

Penelitian Fundamental

Laju Pengeringan Herbal Kunyit (Curcuma longa L.) Menggunakan Pengering Baki

BODE HARYANTO , ROSDANELLI HASIBUAN

2024

Penelitian Kerjasama Antar Perguruan Tinggi

Pengaruh Perbedaan Ukuran dan Massa Adsorben Pelepah Sawit Teraktivasi dalam Pemurnian Minyak Jelantah Menggunakan Metode Shaker

BODE HARYANTO , DWI ANNISA FITHRY

Community Services

2017

Ipteks

Remediasi Pasir Terkontaminasi Ion Logam pada Kolom Pencucian Menggunakan SDS Surfaktan Bermuatan Negatif

BODE HARYANTO , SISWARNI MZ

2018

Ipteks Bagi Masyarakat

PEMANFAATAN DEBU PASIR SINABUNG SEBAGAI MEDIA TANAM DENGAN ALAT CETAK HYDROLIK KEPADA MASYARAKAT SEKITAR DAERAH BENCANA ERUPSI SINABUNG

BODE HARYANTO , AHMAD PERWIRA MULIA TARIGAN , RINA BR BUKIT

2022

Ipteks Bagi Masyarakat

PELATIHAN AKUNTANSI SEDERHANA MASA PANDEMI COVID 19 PADA PEDAGANG SAYUR MAYUR PASAR KWALA BEKALA MEDAN

SIMPATI MELLYGINTA SINUHAJI , BODE HARYANTO , YETI MELIANY LUBIS , TAUFIK AKBAR PARLUHUTAN

2017

Ipteks

Kajian Remediasi Pasir Terkontaminai Logam Cadmium oleh Surfaktan SDS dan TX 100 pada Kolom Pencuci

BODE HARYANTO , SISWARNI MZ

Intellectual Property Rights

2020

Paten nasional

METODE PENGOLAHAN AIR GAMBUT MENGGUNAKAN EKO ENZIM BERBASIS LIMBAH KULIT JERUK DAN ADSORPSI MENGGUNAKAN KARBON AKTIF

BODE HARYANTO
