Muhammad Hendra Sahputra Ginting, ST., MT.

Lecturer of Undergraduate Program in Chemical Engineering Study Program
Faculty of Engineering
Universitas Sumatera Utara

hendra.ginting@usu.ac.id

ft.usu.ac.id/en/lecturer/muhammad-hendra-sahputra-ginting

Muhammad Hendra Sahputra Ginting, S.T, M.T., born in Lalang Sunggal Village on September 19, 1970, is a lecturer of Chemical Engineering at the Universitas Sumatera Utara. In 2005, he graduated with a Master of Engineering from the Universitas Sumatera Utara Faculty of Engineering Chemical Engineering Study Program. He received an award, namely Satyalancana Karya Satya X Years.

Publications

2025
Jurnal internasional bereputasi

DEVELOPMENT OF BIOPLASTICS BASED ON FOXTAIL MILLET (Setaria italica) SEED STARCH USING CaCO3 AS A FILLER AND GLYCEROL AS A PLASTICIZER THROUGH MELT INTERCALATION METHOD

MUHAMMAD HENDRA S GINTING , FARIZAL HAMDI , AFIIFAH RADHIYATULLAH , VIQRY PRAMANANDA

2025
Prosiding seminar internasional

Characteristics of Natural Rubber Latex-Modified Asphalt: A Review

HAMIDAH HARAHAP , MUHAMMAD HENDRA S GINTING , VIQRY PRAMANANDA

2023
Jurnal internasional bereputasi

EFFECT OF SONIFICATION TIME ON THE PREPARATION OF CLAMSHELL NANOPARTICLES USING COCAMIDOPROPYL BETAINE (AMPHITOL 24AB) SOLUTION AS SURFACTANT AS FILLER IN COMPOSITE MATERIALS

MAULIDA , MUHAMMAD HENDRA S GINTING

2023
Jurnal internasional bereputasi

MICROWAVE-ASSISTED ALKALIZATION PRETREATMENT OF CELLULOSE NANOFIBERS DERIVED FROM SUGAR PALM FIBER

MAULIDA , MUHAMMAD HENDRA S GINTING

2023
Jurnal internasional bereputasi

THE EFFECT OF CHICKEN EGGSHELL (Gallus gallus domesticus) PARTICLE SIZE AS FILLER TO POLYESTER COMPOSITE AS MOTORCYCLEâ€™S EXHAUST PIPE COVER MATERIAL

MAULIDA , MUHAMMAD HENDRA S GINTING

2023
Prosiding seminar internasional

Mechanical properties of bioplastic corn starch with nanofiber cellulose from oil palm mesocarp fibers and glycerol as plasticizer

MAULIDA , MUHAMMAD HENDRA S GINTING

2023
Jurnal internasional bereputasi

PHYSICAL RESISTANCE OF CORN STARCH BASED BIOPLASTIC AT VARIOUS STORAGE TEMPERATURE

MAULIDA , MUHAMMAD HENDRA S GINTING

2022
Jurnal internasional bereputasi

PROVISION OF CARBOXYMETHYL CELULLOSE MATERIAL BASED ON DURIAN SEED POWDER

RONDANG TAMBUN , MUHAMMAD HENDRA S GINTING , MAULIDA

2022
Jurnal internasional bereputasi

CHARACTERIZATION OF NANOPARTICLES FROM Polymesoda Erosa CLAMSHELL POWDER FOR MATERIAL APPLICATION

MAULIDA , MUHAMMAD HENDRA S GINTING

2022
Jurnal internasional bereputasi

PRODUCTION OF BIOPLASTIC FROM JACKFRUIT SEED STARCH (Artocarpus heterophyllus) REINFORCED WITH CHITOSAN USING SORBITOL AS PLASTICIZER

MUHAMMAD HENDRA S GINTING , MAULIDA

2021
Jurnal internasional bereputasi

EFFECT OF HOT PRESS TEMPERATURE ON PHYSICAL AND MECHANICAL PROPERTIES OF COMPOSITES OF POLYESTER RESIN FILES WITH CHICKEN EGG (Gallus Gallus Domesticus) Shell Powder

MUHAMMAD HENDRA S GINTING , MAULIDA , ROSDANELLI HASIBUAN

2021
Jurnal internasional bereputasi

Effect of Heating on Tensile Strength and Elongation at Break of Bioplastic from Taro Starch Filled Chitosan (Colocasia esculenta) with Glycerol Plasticizer

ROSDANELLI HASIBUAN , MAULIDA , MUHAMMAD HENDRA S GINTING

2021
Prosiding seminar internasional

Preparation and characterization of cellulose microcrystalline made from palm oil midrib

MUHAMMAD HENDRA S GINTING

2021
Jurnal internasional bereputasi

CHARACTERIZATION OF NANOFIBER CELLULOSE FROM OIL PALM MESOCARP FIBER USING CHEMICAL-ULTRASONIC PROCESSES

MUHAMMAD HENDRA S GINTING , MAULIDA

2021
Jurnal internasional bereputasi

Clamshell nanoparticles (Anadara granosa) as fillers in unsaturated polyester resin composites: Effect of fillers and molding pressure

MAULIDA , ROSDANELLI HASIBUAN , MUHAMMAD HENDRA S GINTING

2020
Prosiding seminar internasional

Mechanical, SEM and FTIR characteristics of bioplastics from mango seed starch with nanoparticle zinc oxide as filler and ethylene glycol as plasticizers

MAULIDA , MUHAMMAD HENDRA S GINTING

2020
Prosiding seminar internasional

Effect of cogon grass powder (Imperata cylindrica L. Beauv) composition and particle size on physical and mechanical properties of unsaturated polyester resin particle board products

MAULIDA , MUHAMMAD HENDRA S GINTING

2020
Jurnal internasional bereputasi

UTILIZATION OF MANGO SEED STARCH IN MANUFACTURE OF HYBRID BIOCOMPOSITE REINFORCED WITH MICROPARTICLE ZnO AND CLAY USING GLYCEROL AS PLASTICIZER

MAULIDA , MUHAMMAD HENDRA S GINTING

2019
Jurnal internasional bereputasi

Unsaturated Polyester Composite Filled Clam Shells (Anadara granosa): Effect of Tensile Strength, Elongation Break and Water Absorption

MUHAMMAD HENDRA S GINTING , ROSDANELLI HASIBUAN , MAULIDA

2018
Prosiding seminar internasional

The effect of increasing chitosan on the characteristics of bioplastic from starch talas (Colocasia esculenta) using plasticizer sorbitol

MUHAMMAD HENDRA S GINTING , MAULIDA

2018
Jurnal internasional bereputasi

Utilization of Avocado Seeds as Bioplastic Films Filler Chitosan and Ethylene Glycol Plasticizer

MAULIDA , ROSDANELLI HASIBUAN , MUHAMMAD HENDRA S GINTING

2018
Jurnal nasional

PENGARUH KONDISI BUAH MENTAH DAN BUAH LUKA TERHADAP NILAI DOBI (DETERIORATION OF BLEACHIBILITY INDEX) DAN KANDUNGAN -KAROTEN

MUHAMMAD HENDRA S GINTING , IKA UCHA PRADIFTA R

2018
Jurnal internasional bereputasi

Production of bioplastic from avocado seed starch as matrix and microcrystalline cellulose from sugar palm fibers with schweizer's reagent as solvent

MAULIDA , MUHAMMAD HENDRA S GINTING

2018
Prosiding seminar internasional

Utilization of mango seed starch in manufacture of bioplastic reinforced with microparticle clay using glycerol as plasticizer

MUHAMMAD HENDRA S GINTING , MAULIDA

2018
Prosiding seminar internasional

Production of bioplastic from jackfruit seed starch (Artocarpus heterophyllus) reinforced with microcrystalline cellulose from cocoa pod husk (Theobroma cacao L.) using glycerol as plasticizer

MAULIDA , MUHAMMAD HENDRA S GINTING

2018
Prosiding seminar internasional

The use of the Kelor Seeds (Moringa oleifera) as alternative coagulant in waste delivery process of

MUHAMMAD HENDRA S GINTING

2018
Prosiding seminar internasional

Supply of avocado starch (Persea americana mill) as bioplastic material

MUHAMMAD HENDRA S GINTING , ROSDANELLI HASIBUAN , MAULIDA

2018
Jurnal internasional bereputasi

PRODUCTION OF BIOPLASTIC FROM AVOCADO SEED STARCH REINFORCED

WITH MICROCRYSTALLINE CELLULOSE FROM SUGAR PALM FIBERS

MUHAMMAD HENDRA S GINTING , MAULIDA

2018
Jurnal internasional bereputasi

UTILIZATION OF JACKFRUIT SEEDS (Artocarpus heterophyllus) IN THE PREPARING OF BIOPLASTICS BY PLASTICIZER ETHYLENE GLYCOL AND CHITOSAN FILLER

MAULIDA , MUHAMMAD HENDRA S GINTING

2017
Prosiding seminar internasional

Effect of Hydrochloric Acid Concentration as Chitosan Solvent on Mechanical Properties of Bioplastics from Durian Seed Starch (Durio Zibethinus) with Filler Chitosan and Plasticizer Sorbitol

ROSDANELLI HASIBUAN , MUHAMMAD HENDRA S GINTING , MAULIDA

2017
Prosiding seminar internasional

Utilization starch of jackfruit seed (Artocarpus heterophyllus) as raw material for bioplastics manufacturing using sorbitol as plasticizer and chitosan as filler

MAULIDA , MUHAMMAD HENDRA S GINTING

2017
Jurnal internasional bereputasi

Effect of Clam Shell Powder (Anadara Granosa) Composition on Physical and Mechanical Properties of Polyester Resin Particle Board Products

MAULIDA , MUHAMMAD HENDRA S GINTING

2016
Jurnal internasional

The Effect of Chitosan, Sorbitol, and Heating Temperature Bioplastic Solution on Mechanical Properties of Bioplastic from Durian Seed Starch (Durio zibehinus)

ROSDANELLI HASIBUAN , MUHAMMAD HENDRA S GINTING

2015
Jurnal internasional

Effect of Gelatinization Temperature and Chitosan on Mechanical Properties of Bioplastics from Avocado Seed Starch (Persea americana mill) with Plasticizer Glycerol

MUHAMMAD HENDRA S GINTING

2015
Jurnal nasional

PENGARUH BERAT PATI DAN VOLUME PLASTICIZER GLISEROL TERHADAP KARAKTERISTIK FILM BIOPLASTIK PATI KENTANG

MUHAMMAD HENDRA S GINTING

2014
Jurnal nasional

Pengaruh variasi komposisi bahan baku briket arang campuran tandan kosong kelapa sawit dan sekam padi terhadap kadar air, nilai kalor dan laju pembakaran yang dihasilkan

MUHAMMAD HENDRA S GINTING , GIYANTO

2014
Jurnal nasional

PENGARUH RASIO EPOKSI/AMPAS TEBU DAN PERLAKUAN ALKALI PADA AMPAS TEBU TERHADAP KEKUATAN BENTUR KOMPOSIT PARTIKEL EPOKSI BERPENGISI SERAT AMPAS TEBU

MUHAMMAD HENDRA S GINTING

2014

Jurnal nasional

Pengaruh Penambahan Gliserol Terhadap Sifat Kekuatan Tarik dan Pemanjangan Saat Putus Bioplastik dari Pati Umbi Talas

ROSDANELLI HASIBUAN , MUHAMMAD HENDRA S GINTING

2014
Jurnal nasional

PENGARUH ASAM STEARAT TERHADAP SIFAT KETEGUHAN PATAH/MODULUS OF RUPTURE PAPAN PARTIKEL TERMOPLASTIK BEKAS BERPENGISI TEMPURUNG KELAPA

ROSDANELLI HASIBUAN , MUHAMMAD HENDRA S GINTING

2014
Jurnal nasional

KAJIAN AWAL PEMBUATAN FILM PLASTIK (BAHAN PLASTIK PENGEMAS) DARI PATI BATANG UBI KAYU

MUHAMMAD HENDRA S GINTING

Researches

2025
Penelitian Dosen Pemula

FORMULASI SABUN PENCUCI TANGAN DENGAN PENAMBAHAN KITOSAN DARI LIMBAH CANGKANG KEPITING SEBAGAI ANTIBAKTERI: STUDI KARAKTERISTIK DAN EFEKTIVITAS

RISMA FAZILLAH , ILHAM PERKASA BAKO , MUHAMMAD HENDRA S GINTING

2022
Penelitian Unggulan Perguruan Tinggi

PEMANFAATAN SELULOSA NANOFIBER DARI SERAT IJUK SEBAGAI PENGISI DAN EKSTRAK SIRIH SEBAGAI ANTIBAKTERI DALAM PEMBUATAN EDIBLE FILM BERBASIS UMBI TALAS

MAULIDA , MUHAMMAD HENDRA S GINTING

2021
Penelitian Unggulan Perguruan Tinggi

SINTESA NANOFIBER SELULOSA DARI SERAT BUAH KELAPA SAWIT SEBAGAI PENGISI BIOKOMPOSIT PATI JAGUNG DENGAN PLASTCIZER GLISEROL

MAULIDA , MUHAMMAD HENDRA S GINTING

2021
Penelitian Unggulan Perguruan Tinggi

PENYEDIAAN CARBOXYMETHYLCELULLOSE (CMC) DARI TEPUNG BIJI DURIAN SEBAGAI MATERIAL BIOFILM

MAULIDA , RONDANG TAMBUN , MUHAMMAD HENDRA S GINTING , AUDRI SALSADILA BR HUTAURUK

2020
Penelitian Unggulan Perguruan Tinggi

SINTESA NANOFIBER SELULOSA DARI SERAT BUAH KELAPA SAWIT SEBAGAI PENGISI BIOKOMPOSIT PATI JAGUNG DENGAN PLASTCIZER GLISEROL

MAULIDA , MUHAMMAD HENDRA S GINTING

2020
Penelitian Unggulan Perguruan Tinggi

PENYEDIAAN CARBOXYMETHYLCELULLOSE (CMC) DARI TEPUNG BIJI DURIAN SEBAGAI MATERIAL

MAULIDA , RONDANG TAMBUN , MUHAMMAD HENDRA S GINTING , ANISA SALSABILA , ARDI UTAMA

2020

PEMANFAATAN SERBUK BATANG JAGUNG TERMODIFIKASI SEBAGAI

PENGISI KOMPOSIT POLIPROPILENA DENGAN PENAMBAHAN PENYERASI MALEAT ANHIDRIDA -g- POLIPROPILENA

MAULIDA , MUHAMMAD HENDRA S GINTING

2020

Pengaruh Penambahan Pengisi Serbuk Nano Kulit Kerang Kepah (Polymesoda erosa) terhadap Karakteristik dan Sifat Mekanik Papan Partikel dari Resin Epoxy

MAULIDA , MUHAMMAD HENDRA S GINTING

2019

Pengaruh Penambahan Pengisi Serbuk Nano Kulit Kerang Kepah (Polymesoda erosa) terhadap Karakteristik dan Sifat Mekanik Papan Partikel dari Resin Epoxy

MAULIDA , MUHAMMAD HENDRA S GINTING

2019
Penelitian Unggulan Perguruan Tinggi

PENYEDIAAN KOMPOSIT POLIESTER BERPENGISI NANOPARTIKEL KULIT KERANG DARAH (ANADARA GRANOSA)"

MAULIDA , ROSDANELLI HASIBUAN , MUHAMMAD HENDRA S GINTING , RIZKA CHAIRINA SIREGAR

2019
Penelitian Fundamental

PEMANFAATAN SERBUK BATANG JAGUNG TERMODIFIKASI SEBAGAI PENGISI KOMPOSIT POLIPROPILENA DENGAN PENAMBAHAN PENYERASI MALEAT ANHIDRIDA -g- POLIPROPILENA

MAULIDA , MUHAMMAD HENDRA S GINTING

2018
Penelitian Unggulan Perguruan Tinggi

PENYEDIAAN KOMPOSIT POLIESTER BERPENGISI NANOPARTIKEL KULIT KERANG DARAH (ANADARA GRANOSA)"

MAULIDA , ROSDANELLI HASIBUAN , MUHAMMAD HENDRA S GINTING , FINNY ANGKIE WINOTO

2018
Penelitian Unggulan Perguruan Tinggi

PEMANFAATAN CANGKANG TELUR AYAM SEBAGAI PENGISI PADA KOMPOSIT POLYESTER

MAULIDA , MUHAMMAD HENDRA S GINTING , VANESSA , ALVIN

2017
Penelitian Dana Lokal Perguruan Tinggi

PENYEDIAAN BIOPLASTIK DARI PATI BIJI ALPUKAT BERPENGISI KITOSAN DENGAN PLASTICIZER ETILEN GLIKOL

ROSDANELLI HASIBUAN , MUHAMMAD HENDRA S GINTING , FARIS ALANJANI

2016
Penelitian Hibah Bersaing

PENGARUH TEMPERATUR GELATINISASI TERHADAP KARAKTERISTIK BIOPLASTIK DARI PATI BIJI DURIAN BERPENGISI KITOSAN

ROSDANELLI HASIBUAN , MUHAMMAD HENDRA S GINTING

2014
Penelitian Fundamental

POTENSI PATI UMBI TALAS SEBAGAI BIOPLASTIK

ROSDANELLI HASIBUAN , MUHAMMAD HENDRA S GINTING

2013
Penelitian Hibah Bersaing

Biodegradasi Komposit Termoplastik Bekas Berpengisi Serbuk Tempurung Kelapa

ROSDANELLI HASIBUAN , MUHAMMAD HENDRA S GINTING

2012

Penelitian Hibah Bersaing

BIODEGRADASI KOMPOSIT TERMOPLASTIK BEKAS BERPENGISI SERBUK TEMPURUNG KELAPA

ROSDANELLI HASIBUAN , MUHAMMAD HENDRA S GINTING

2010
Penelitian Strategis Nasional

PEMANFAATAN SERBUK KULIT SALAK SEBAGAI PENGISI PADA KOMPOSIT TERMOPLASTIK BEKAS (PLASTIK KEMASAN CUP)

ROSDANELLI HASIBUAN , MUHAMMAD HENDRA S GINTING

Community Services

2025

SUSUNAN PENGURUS KESEJAHTERAAN MASJID AL-ISHLAH DSN.V DESA PAYA GELi KEC.SUNGGALPRIODE 2022- 2027

MUHAMMAD HENDRA S GINTING

2023

Personalia Badan Pemeriksa Keuangan Masjid Assaadah Kelurahan Martubung Kecamatan Medan Labuhan

MUHAMMAD HENDRA S GINTING

2023

PANITIA PERINGATAN ISRA' DAN MIKRAJ NABI BESAR MUHAMMAD SAW TAHUN 1444 H MASJID Al.-lSHLAH DUSUN V DESA PAYA GELI KECAMATAN SUNGGAL

MUHAMMAD HENDRA S GINTING

2022

Personalia Badan Pemeriksa Keuangan Masjid Assaadah Kelurahan Martubung Kecamatan Medan Labuhan

MUHAMMAD HENDRA S GINTING

2017
Ipteks Bagi Masyarakat

Pentingnya Pengetahuan Produk Halal dan Aman pada Makanan dan Komestik bagi Ibu Pengajian An Nadzirin Kelurahan Gedung Johor Medan

LILIS SUKEKSI , HARMONA DAULAY , MUHAMMAD HENDRA S GINTING , ZULKIFLI DRS MA

2016

Edukasi Pentingnya Mengenali Kehalalan dan Aman Suatu Produk Kepada Pelajar SMA Yayasan Pendidikan Harapan 3 Medan

RENITA MANURUNG , MAULIDA , FARIDA HANUM , MUHAMMAD HENDRA S GINTING