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*Muhammad Hendra Sahputra Ginting, S.T., M.T. dilahirkan di Kampung Lalang, Sunggal pada tanggal 19 September 1970 merupakan seorang dosen di Universitas Sumatera Utara dengan bidang ilmu Teknik Kimia. Beliau menyelesaikan pendidikan terakhirnya pada jenjang Magister Teknik (S2) di Program Studi Teknik Kimia, Fakultas Teknik, Universitas Sumatera Utara pada tahun 2005. Penghargaan yang diraih beliau, yaitu Piagam Tanda Kehormatan Satyalancana Karya Satya 10 Tahun.*

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## Publications

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2025

Prosiding seminar internasional

### **Characteristics of Natural Rubber Latex-Modified Asphalt: A Review**

HAMIDAH HARAHAHAP , MUHAMMAD HENDRA S GINTING , VIQRY PRAMANANDA

2021

Prosiding seminar internasional

### **Preparation and characterization of cellulose microcrystalline made from palm oil midrib**

MUHAMMAD HENDRA S GINTING

2026

Prosiding seminar internasional

### **Enhanced Rubber-to-Filler Interaction in Carbon Black-Reinforced Epoxidized Natural Rubber Using Ethanolamine Modified Palm Stearin**

INDRA SURYA , 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

2023

Jurnal internasional bereputasi

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

MAULIDA , MUHAMMAD HENDRA S GINTING

2025

Jurnal internasional bereputasi

### **DEVELOPMENT OF BIOPLASTICS BASED ON FOXTAIL MILLET (*Setaria italica*) SEED STARCH USING CaCO<sub>3</sub> AS A FILLER AND GLYCEROL AS A PLASTICIZER THROUGH MELT INTERCALATION METHOD**

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

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

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

2022

Jurnal internasional bereputasi

**CHARACTERIZATION OF NANOPARTICLES FROM Polymesoda Erosa CLAMSHELL POWDER FOR MATERIAL APPLICATION**

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

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

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

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

2021

Jurnal internasional bereputasi

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

MUHAMMAD HENDRA S GINTING , MAULIDA

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

2022

Jurnal internasional bereputasi

**PROVISION OF CARBOXYMETHYL CELULLOSE MATERIAL BASED ON DURIAN SEED POWDER**

RONDANG TAMBUN , MUHAMMAD HENDRA S GINTING , MAULIDA

2014

Jurnal nasional

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

MUHAMMAD HENDRA S GINTING

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

2021

Jurnal internasional bereputasi

## **THE EFFECT OF ADDITION NANOPARTICLE CHICKEN EGGSHELL FILLERS ON BIOCOMPOSITE ACRYLIC RESIN FOR DENTURE BASE**

MAULIDA , MUHAMMAD HENDRA S GINTING , NISAUL FADILAH DALIMUNTHE

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 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

2022

Jurnal internasional bereputasi

## **Hydrogel and Effects of Crosslinking Agent on Cellulose-Based Hydrogels: A Review**

HAMIDAH HARAHAHAP , NISAUL FADILAH DALIMUNTHE , HALIMATUDDAHLIANA , MUHAMMAD HENDRA S GINTING

2023

Jurnal internasional bereputasi

## **PHYSICAL RESISTANCE OF CORN STARCH BASED BIOPLASTIC AT VARIOUS STORAGE TEMPERATURE**

MAULIDA , MUHAMMAD HENDRA S GINTING

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

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

2019

Jurnal internasional bereputasi

## **THE INFLUENCE OF CHICKEN EGG SHELL AS FILLERS ON BIOCOMPOSITE ACRYLIC RESIN FOR DENTURE BASED ON MECHANICAL STRENGTH AND WATER ABSORPTION**

NISAUL FADILAH DALIMUNTHE , MUHAMMAD HENDRA S GINTING , 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

2015

Jurnal nasional

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

MUHAMMAD HENDRA S GINTING

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

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

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

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

2021

Prosiding seminar internasional

## **The effect of lime (*Citrus aurantifolia* Swingle) electrolyte filtrate addition on conductivity and electricity of hydrogel aluminium battery based on carboxymethyl cellulose**

DR IRIANY, IR, MSC , ERNI MISRAN , 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 MOTORCYCLE EXHAUST PIPE COVER MATERIAL**

MAULIDA , 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

2017

Prosiding seminar internasional

## **The Influence of Chicken Egg Shell as Fillers on Biocomposite Acrylic Resin for Denture Based**

MAULIDA , MUHAMMAD HENDRA S GINTING , NISAUL FADILAH DALIMUNTHE

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

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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

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2020

Penelitian Unggulan Perguruan Tinggi

## **PENYEDIAAN CARBOXYMETHYLCELULOSE (CMC) DARI TEPUNG BIJI DURIAN SEBAGAI MATERIAL**

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

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2018

Penelitian Unggulan Perguruan Tinggi

## **PEMANFAATAN CANGKANG TELUR AYAM SEBAGAI PENGISI PADA KOMPOSIT POLYESTER**

MAULIDA , MUHAMMAD HENDRA S GINTING , VANESSA , ALVIN

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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

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2020

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

MAULIDA , MUHAMMAD HENDRA S GINTING

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2021

Penelitian Unggulan Perguruan Tinggi

## **PENYEDIAAN CARBOXYMETHYLCELULOSE (CMC) DARI TEPUNG BIJI DURIAN SEBAGAI MATERIAL BIOFILM**

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

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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

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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

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2019

Penelitian Fundamental

## **PEMANFAATAN SERBUK BATANG JAGUNG TERMODIFIKASI SEBAGAI**

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

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

## **Community Services**

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2022

### **Personalia Badan Pemeriksa Keuangan Masjid Assaadah Kelurahan Martubung Kecamatan Medan Labuhan**

MUHAMMAD HENDRA S GINTING

2023

### **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 Kostumik bagi Ibu Pengajian An Nadzirin Kelurahan Gedung Johor Medan**

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

2025

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

MUHAMMAD HENDRA S GINTING

2024

### **Peran media Sosial Dalam Mendorong Kesadaran dan Pembelian Produk Halal Dikalangan Generasi Alpha Pada SMP Al-Azhar Medan**

TENGGU ERRY NURADI , SATIA NEGARA LUBIS , ZULKIFLI , SURYA HARDI , MUHAMMAD TURMUZI , HAMIDAH HARAHAP , DELVIAN , MUHAMMAD HENDRA S GINTING

2023

### **PANITIA PERINGATAN ISRA' DAN MIKRAJ NABI BESAR MUHAMMAD SAW TAHUN 1444 H MASJID AL.-ISHLAH DUSUN V DESA PAYA GELI KECAMATAN SUNGGAL**

MUHAMMAD HENDRA S GINTING