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*Dr. Eng. Ir. Indra M.Sc dilahirkan di Pekan baru pada tanggal 24 Oktober 1964 merupakan seorang dosen Mesin di Universitas Sumatera Utara. Beliau menyelesaikan jenjang Doktor di Program Studi Environment and Life Engineering di Toyoshi University Of Technology tahun 2008.*

## Publications

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2025

Prosiding seminar internasional

### **Bending Strength Respons of Composite Core Paper (CCP)-Based Pallet by Finite Element Method (FEM) Using ANSYS**

INDRA IR MSC DR ENG

2025

Prosiding seminar internasional

### **Effect of Thermomechanical Processing on the Mechanical Properties**

INDRA IR MSC DR ENG

2024

Jurnal internasional bereputasi

### **Alumina Particle Size and Abrasion Pressure on Resin Cement Bond Strength in Adhesive Bridges**

INDRA IR MSC DR ENG , PUTRI WELDA UTAMI RITONGA

2024

Prosiding seminar internasional

### **Bending Strength Response of Composite Core Paper (CCP)-Based Pallet by Finite Element Method (FEM) Using ANSYS**

INDRA IR MSC DR ENG

2022

Jurnal internasional

### **The role of coping material type and collarles margin design toward fracture resistance of metal porcelain restoration**

HASLINDA Z TAMIN , RICCA CHAIRUNNISA , INDRA IR MSC DR ENG

2022

Jurnal internasional

### **The effect of coping materials and designs to the marginal adaptation of metal porcelain crowns**

INDRA IR MSC DR ENG , ARIYANI DRG , HASLINDA Z TAMIN

2022

Jurnal internasional

### **Effectiveness of Guava Leaf Extract (Psidium guajava L.) as Corrosion Inhibitor of Stainless Steel Orthodontic Wire**

INDRA IR MSC DR ENG , RICCA CHAIRUNNISA , HASLINDA Z TAMIN

2022

Buku lainnya

# **The Simulation of Fracture Resistance and Stress Distribution of Teeth In Endodontic Post-Treatment of Different Ferrule By Finite Element Analysis**

INDRA IR MSC DR ENG , TRIMURNI ABIDIN , RASINTA TARIGAN

2021

Prosiding seminar internasional

## **The Effect of Noise on Average Beta EEG Signal**

INDRA IR MSC DR ENG , LISTIANI NURUL HUDA

2021

Jurnal internasional bereputasi

## **A Simulation of Fracture Resistance and Stress Distribution of Endocrown in Diferent Depth of Pulp Chamber and Modification: Finite Element Analysis**

INDRA

2021

Jurnal internasional

## **A Simulation of Fracture Resistance and Stress Distribution of Endocrown in Diferent Depth of Pulp Chamber and Modification: Finite Element Analysis**

INDRA IR MSC DR ENG , TRIMURNI ABIDIN , RASINTA TARIGAN

2021

Jurnal internasional bereputasi

## **Surface treatment and resin cement effect on ni-cr metal to shear bond strength of adhesive bridge**

RICCA CHAIRUNNISA , INDRA IR MSC DR ENG , HASLINDA Z TAMIN

2020

Jurnal internasional bereputasi

## **The Effects of Coping Design and Firing Temperature to the Marginal Adaptation of Metal Porcelain Crowns.**

RICCA CHAIRUNNISA , HASLINDA Z TAMIN , INDRA IR MSC DR ENG

2020

Prosiding seminar internasional

## **Analysis Skin Temperature Distribution of Thermal Manikin**

INDRA IR MSC DR ENG , LISTIANI NURUL HUDA

2020

Buku lainnya

## **Value Engineering of Coco Peat Product to Increase Productivity**

LISTIANI NURUL HUDA , A RAHIM MATONDANG , INDRA IR MSC DR ENG

2020

Buku lainnya

## **Thermal Manikin Construction Using Arduino Microcontroller**

LISTIANI NURUL HUDA , INDRA IR MSC DR ENG

2019

Jurnal internasional

## **DIMENSIONAL ACCURACY OF PUTTY-WASH ONE-STEP AND TWO-STEP IMPRESSION TECHNIQUE IN FABRICATION OF FIXED PARTIAL DENTURE**

INDRA IR MSC DR ENG , SYAFRINANI

2019

Jurnal internasional

## **The influence of coping designs on labio-marginal towards fracture resistance of metal-porcelain restoration**

INDRA IR MSC DR ENG

2017

Jurnal internasional

## **Effect of Temperature And Number of Opaque Porcelain Firing on Bond Strength of Metal-Ceramic Fixed Partial Denture**

INDRA IR MSC DR ENG

2017  
Jurnal internasional

## **Effect of Thermocycling and Polyethylene Fibre Addition on Impact and Transversal Strength of Heat Cured Acrylic Resin Denture Base Material**

INDRA IR MSC DR ENG , ISMET DANIAL NASUTION

2013  
Jurnal nasional terakreditasi

## **Pengaruh Penambahan Fiber Glass Reinforced Terhadap Penyerapan Air Dan Stabilitas Warna Bahan Basis Gigi Tiruan Nilon Termoplastik (Effect Of Fiber Glass Reinforced Addition To)**

INDRA IR MSC DR ENG , HASLINDA Z TAMIN , ARIYANI DRG

2009  
Jurnal internasional bereputasi

## **Atmospheric pressure chemical vapor deposition mechanism of Al<sub>2</sub>O<sub>3</sub> film from AlCl<sub>3</sub> and O<sub>2</sub>**

INDRA IR MSC DR ENG

2007  
Jurnal internasional

## **Sintering and Mechanical Properties of Alumina Prepared by Nanosize Alumina**

INDRA IR MSC DR ENG

## **Researches**

2025

### **Optimasi Rasio Serat Panjang dan Pendek untuk Meningkatkan Kekuatan Tarik Composite Core Papers (CCP)**

LISTIANI NURUL HUDA , INDRA IR MSC DR ENG , SRI HARTATI , SUCIPTO , HENDRO DARMONO , IBRAHIM MUTTAQINA MAFAZA

2025

### **Analisis Resistansi Pakaian terhadap Kondisi Kelonggaran Baju Kerja pada Thermal Manikin**

LISTIANI NURUL HUDA , INDRA IR MSC DR ENG , FATA EL FARUQ SIREGAR , JOSEPH ADRIAN PUTRA MENDROFA , SULIS SETYOWATI , MUFIIDAH ZULFAA

2025  
Ipteks

### **Desain Pallet**

INDRA IR MSC DR ENG

2024  
Penelitian Disertasi Doktor

### **Sintesis Scaffold Sheet Berbahan Gondorukem dengan Pengisi Nano Hidroksiapatit Sisik Ikan Nila untuk Remineralisasi Gigi**

HALIMATUDDAHLIANA , NINA DJUSTIANA , KHOLIDINA IMANDA HARAHAHAP , INDRA IR MSC DR ENG , KHOLIDINA IMANDA HARAHAHAP

2022  
Ipteks

### **Pembuatan Pallet Kekuatan Tinggi dari Core Kertas karton Daur Ulang**

INDRA IR MSC DR ENG

2016  
Ipteks Bagi Masyarakat

### **IbM Kelompok Usaha Kerajinan Pandan Di Serdang Bedagai Sumatera Utara**

M. SABRI , INDRA IR MSC DR ENG

2013  
Penelitian Hibah Bersaing

### **Kajian Paparan Panas Lingkungan Kerja Terhadap Kenyamanan Termal dan**

## **Produktivitas**

LISTIANI NURUL HUDA , INDRA IR MSC DR ENG

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2013

Ipteks Bagi Masyarakat

### **IbM KELOMPOK PANDAI BESI DI PANCUR BATU KABUPATEN DELISERDANG SUMATERA UTARA**

LISTIANI NURUL HUDA , INDRA IR MSC DR ENG

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## **Community Services**

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2025

### **Intervensi Ergonomi pada Tenaga Kerja di Rumah sakit sesuai SNI 9011:2021**

LISTIANI NURUL HUDA , INDRA IR MSC DR ENG , ADRIAN YOSEFUS VIANO , ANNISA NURFADHILAH

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2014

Penelitian Hibah Bersaing

### **Pengembangan Desain Baru dan Manufaktur Alat Pemanen Sawit Mekanis Untuk Meningkatkan**

2013

Penelitian Hibah Bersaing

### **Pengembangan Desain Baru dan Manufaktur Alat Pemanen Sawit Mekanis Untuk Meningkatkan**

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