

Prof. Dr. Apri Heri Iswanto, S.Hut., M.Si.

Dosen Program Studi S1 Kehutanan
Fakultas Kehutanan
Universitas Sumatera Utara

✉ apri@usu.ac.id

📍 Kampus 2 USU Bekala, Simalingkar A, Pancur Batu, Deli Serdang, 20353, Sumatera Utara, Indonesia

☎ 085261290619

🌐 fhut.usu.ac.id/id/dosen/apri-heri-iswanto

Prof. Dr. Apri Heri Iswanto, S.Hut, M.Si. merupakan salah satu profesor dalam bidang ilmu Teknologi Papan Partikel dan Papan Serat pada Fakultas Kehutanan Universitas Sumatera Utara. Selama berkarir pernah mendapat kepercayaan sebagai Wakil Dekan III yang menangani Penelitian, Pengabdian pada Masyarakat, dan Kerjasama pada periode tahun 2016-2021. Selain mengajar, beliau juga aktif melakukan berbagai kegiatan penelitian ilmiah terkait dengan material kayu dan non kayu sebagai bahan baku papan komposit. Beliau juga aktif sebagai reviewer pada beberapa jurnal internasional bereputasi diantaranya Journal of Building Engineering, Journal of Cleaner Production, Industrial Crops & Product, International Journal of Mechanics and Materials in Design, Construction and Building Materials, Environment Technology Innovative, Journal of the Korean Wood Science and Technology, Case Study in Construction Materials, Biomass Conversion and Biorefinery, BioResources, Polymers, Forests, dan Frontier in Materials. Saat ini, beliau aktif sebagai reviewer penelitian internal USU, penelitian DRTPM DIKTI, dan reviewer Dewan Pendidikan Tinggi Kemendikbudristek untuk program hibah matching fund. Pada tahun 2018-2021 pernah menjadi editor in chief pada Journal of Sylva Indonesiana (Sinta-3), kemudian pada tahun 2023 hingga sekarang beliau berperan sebagai editor in chief pada Global Forest Journal. Tak hanya itu, terhitung pada tahun 2024, beliau juga berkontribusi sebagai editorial board member Jurnal Sylva Lestari (Terindeks scopus).

Publications

2026

Jurnal internasional bereputasi

Structural, Chemical, and Morphological Evaluation of Banana Pseudostem Fibers for Biobased Composite Development

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2025

Jurnal internasional bereputasi

Synthesis and Application of Activated Charcoal from Indonesian Sugar Palm Bunches (Arenga longipes) as a Potential Absorbent for Heavy Metals

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2025

Prosiding seminar internasional

The Effect of Particle Soaking Treatment on The Quality of Hybrid Organic Solid Waste Particleboard (HOSWPb)

APRI HERI ISWANTO , MANGGAR ARUM ARISTRI , IRENE ISSABELLA MAHARANI PANJAITAN , NABILA

2025

Prosiding seminar internasional

The effect of adhesive content and layer ratio on the quality of sandwich particleboard

MANGGAR ARUM ARISTRI , APRI HERI ISWANTO , DWIKA PUTRA , IRENE ISSABELLA MAHARANI PANJAITAN , NABILA

2025

Prosiding seminar internasional

Sandwich particleboard from Gigantochloa pruriens and Styrax sumatrana: study of hot-pressing parameter on physical and mechanical properties

APRI HERI ISWANTO , NABILA , FITRI ORELIA S , MANGGAR ARUM ARISTRI

2025

Jurnal internasional bereputasi

Greener Polyurethane Adhesive Derived from Polyvinyl Alcohol/Tannin-Based Polyol for Plywood

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2025

Jurnal internasional bereputasi

Improving mechanical and physical properties of citric acid-bonded kenaf particleboard with gelatinized starch

APRI HERI ISWANTO

2025

Jurnal internasional bereputasi

Elucidating the adhesion mechanism, bond-line thickness, and resin penetration of waste cooking oil-Based polyurethane adhesives in plywood

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2025

Jurnal internasional bereputasi

Characteristics of formacell OPEFB lignin by potassium hydroxide precipitation

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2025

Jurnal internasional bereputasi

Comparative Analysis of Fiber Characteristics and Chemical, Physical, and Mechanical Properties of Six Indigenous Bamboo Species from Indonesia

RIANA ANGGRAINI , APRI HERI ISWANTO , IKA YULIANDARI , Antalina Florida Br. Marpaung , Feby Savva Kharisma , Sarah Augustina , Widya Fatriasari , MUHAMMAD RASYIDUR RIDHO

2025

Jurnal internasional bereputasi

Comparative Analysis of Fiber Characteristics and Chemical, Physical, and Mechanical Properties of Six Indigenous Bamboo Species from Indonesia

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2025

Prosiding seminar internasional

The Effect of Harvesting Time on the Fiber Quality of Kenaf and Roselle

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2025

Prosiding seminar internasional

Enhanced Adhesion and Reduced Formaldehyde Emission of Urea-Formaldehyde Resin Bonded Plywood Panel Using Intercalated Montmorillonite and Laponite Nanoclay

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2025

Jurnal internasional bereputasi

Modified acacia lignin-reinforced epoxy nanocomposites with PVA assistance for sustainable food packaging

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2025

Jurnal internasional bereputasi

Characteristics of Bioplastics Based on Chitosan and Kraft Lignin Derived from Acacia mangium

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2025

Jurnal internasional bereputasi

Characteristics of Three Bamboo Species and Their Potential as Raw Materials for Oriented Strand Board Production

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2025

Jurnal internasional bereputasi

Chemical constituents, physical, and mechanical properties of Indonesian sugar palm (*Arenga longipes* Mogeia) trunk

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2025

Prosiding seminar internasional

Fiber Quality of Peol Bamboo (*Dendrocalamus giganteus* Wallich ex Munro) as a Raw for Pulp and Paper

IHAK SUMARDI , RUDI HARTONO , APRI HERI ISWANTO , TRISNA PRIADI

2025

Jurnal internasional bereputasi

Exploring Bonding and Interfacial Adhesion Properties of Normal and Reaction Wood in Wood-Based Composites-A Review

APRI HERI ISWANTO

2025

Jurnal internasional bereputasi

Synthesis, characterization, applications, and environmental impacts of nanofluid thermosetting adhesives for sustainable bio-composites: A review

DEWI KURNIANINGSIH ARUM KUSUMAHASTUTI , APRI HERI ISWANTO , Ina Winarni , Muhammad Adly Rahandi Lubis , EFRI MARDAWATI

2025

Jurnal internasional bereputasi

Enhancing the Performance of Cold-Setting Phenol-Resorcinol-Formaldehyde Resin Adhesives through Condensation Extension

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2025

Jurnal nasional

Nanofluid thermosetting adhesives for bonding forest-based lignocellulosic materials: A Brief Review of Synthesis, characterization, and applications

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2025

Jurnal internasional bereputasi

Performance of Exterior-Grade Plywood Composites Bonded With Formaldehyde-Free Bio-Adhesives Derived From Polyvinyl Alcohol, Citric Acid, and Microwave-Assisted Carboxymethylation of Lignocellulose

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2025

Jurnal internasional bereputasi

Effect of Air Heat Treatment on the Shrinkage and Surface Roughness of Six Korean Oak Woods

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2025

Prosiding seminar internasional

The economic value and marketing chain of gambir (*Uncaria gambir* Roxb) in Pakpak Bharat Regency, North Sumatra

TITO SUCIPTO , APRI HERI ISWANTO

2024

Jurnal internasional bereputasi

A comprehensive review of lignin-reinforced lignocellulosic composites: Enhancing fire resistance and reducing formaldehyde emission

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2024

Jurnal internasional bereputasi

The influence of washing of rice straw lignin isolation on polyurethane

synthesis for coating in biomedical application

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2024

Jurnal internasional bereputasi

Ramie Fibers from Agroforestry System as Sustainable Materials for Functional Textiles: A Review

MANGGAR ARUM ARISTRI , WAHYU HIDAYAT , Muhammad Adly Rahandi Lubis , APRI HERI ISWANTO

2024

Jurnal internasional bereputasi

Ramie Fibers from Agroforestry System as Sustainable Materials for Functional Textiles: A Review

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2024

Jurnal internasional bereputasi

Production and Properties Chip Block Pallets from Teak Wood (Tectona grandis sp.) Biomass

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2024

Jurnal internasional bereputasi

Hydrolytic Stability of Sengon-Oriented Strand Board Bonded with Hybrid Phenol-Formaldehyde/Polymeric Methylene Diphenyl Diisocyanate Adhesives

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2024

Jurnal internasional bereputasi

Overview of the Synthesis, Characterization, and Application of Tannin-Glyoxal Adhesive for Wood-Based Composites

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2024

Jurnal internasional bereputasi

Adhesion and Cohesion Performance of Polyurethane Made of Bio-Polyol Derived from Modified Waste Cooking Oil for Exterior Grade Plywood

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2024

Jurnal internasional bereputasi

Effect of Air Heat Treatment on the Color Change and Weight and Density Loss of Six Korean Oak Woods

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2024

Jurnal internasional bereputasi

Thermo-Mechanical, Physico-Chemical, Morphological, and Fire Characteristics of Eco-Friendly Particleboard Manufactured with Phosphorylated Lignin Addition

HARISYAH MANURUNG , APRI HERI ISWANTO

2024

Jurnal internasional bereputasi

Performance of Oriented Strand Board Made of Heat-Treated Bamboo (Dendrocalamus asper (Schantz.) Backer) Strands

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2024

Jurnal internasional bereputasi

Characteristics of Biopellets Manufactured from Various Lignocellulosic Feedstocks as Alternative Renewable Energy Sources

HARISYAH MANURUNG , APRI HERI ISWANTO

2024

Prosiding seminar internasional

The effect of chemically modified wood particles on the termite durability of sandwich particleboard from Cotylelobium melanoxylon and Gigantochloa pruriens

NIKEN SUBEKTI , D Tarmadi , TEKAT DWI CAHYONO , ATMAWI DARWIS , SYAHIDAH , HIKMA YANTI , APRI HERI ISWANTO

2024
Jurnal internasional bereputasi

Eco-Friendly and High-Performance Bio-Polyurethane Adhesives from Vegetable Oils: A Review

APRI HERI ISWANTO , SENA MAULANA , EFRI MARDAWATI

2024
Prosiding seminar internasional

Hot-pressing effect on the termite durability of sandwich particleboards from Styrax sumatrana and Gigantochloa pruriens

HIKMA YANTI , TEKAT DWI CAHYONO , ATMAWI DARWIS , NIKEN SUBEKTI , SYAHIDAH , APRI HERI ISWANTO , D Tarmadi

2024
Jurnal internasional bereputasi

The Application of Entomopathogenic Fungi Metarhizium anisopliae, Beauveria bassiana, and Trichoderma harzianum for Coptotermes curvignathus and Cryptotermes cynocephalus Termite Control in Indonesia

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Properties of bio-based non-isocyanate polyurethane resins derived from viscous tannin of Acacia mangium bark, dimethyl carbonate, and hexamethylenediamine

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2024
Jurnal internasional bereputasi

Effects of boiling water treatment on the physical properties of Quercus variabilis virgin cork grown in Korea

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Isocyanate-free tannin-based polyurethane resins for enhancing thermo-mechanical properties of ramie (Boehmeria nivea L.) fibers

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2024
Jurnal internasional bereputasi

Chemical properties, crystallinity, and fiber biometry of Jabon (Anthocephalus cadamba) wood for pulp raw material: the effect of age and position

ALFI RUMIDATUL , ATMAWI DARWIS , TATI KARLIATI , EKA MULYA ALAMSYAH , LILI MELANI , APRI HERI ISWANTO

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Jurnal internasional bereputasi

Radial Variation of Wood Anatomical Characteristics and Maturation Ages of Six Korean Oak Species

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Preparation of superhydrophobic biomedical pulp from rice straw coated with a stearic acid-cellulose composite

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Jurnal internasional bereputasi

Isocyanate-free tannin-based polyurethane resins for enhancing thermo-mechanical properties of ramie (Boehmeria nivea L.) fibers

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Durability of heat-treated Paulownia tomentosa and Pinus koraiensis woods in palm oil and air against brown- and white-rot fungi

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2023

Jurnal internasional bereputasi

Durability of heat-treated Paulownia tomentosa and Pinus koraiensis woods in palm oil and air against brown- and white-rot fungi

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Jurnal internasional bereputasi

Macroscopic and Microscopic Anatomical Characteristics of Six Korean Oak Species

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Jurnal internasional bereputasi

Biological Rotation Age of Community Teak (Tectona grandis) Plantation Based on the Volume, Biomass, and Price Growth Curve Determined through the Analysis of Its Tree Ring Digitization

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2023

Jurnal internasional bereputasi

Latest Advancements in the Development of High-Performance Lignin- and Tannin-Based Non-Isocyanate Polyurethane Adhesive for Wood Composites

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The effect of chemically modified wood particles on the termite durability of sandwich particleboard from Cotylelobium melanoxylon and Gigantochloa pruriens

HIKMA YANTI , TEKAT DWI CAHYONO , APRI HERI ISWANTO , SYAHIDAH , NIKEN SUBEKTI , ATMAWI DARWIS

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Hot-pressing effect on the termite durability of sandwich particleboards from Styrax sumatrana and Gigantochloa pruriens

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Jurnal internasional bereputasi

Properties of Ramie (Boehmeria nivea (L.) Gaudich) Fibers Impregnated with Non-Isocyanate Polyurethane Resins Derived from Lignin

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Jurnal internasional bereputasi

Cohesion and Adhesion Performance of Tannin-Glyoxal Adhesives at Different Formulations and Hardener Types for Bonding Particleboard Made of Areca (Areca catechu) Leaf Sheath

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Jurnal internasional bereputasi

Annual Tree-Ring Curve-Fitting for Graphing the Growth Curve and Determining the Increment and Cutting Cycle Period of Sungkai (Peronema canescens

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Annual Tree-Ring Curve-Fitting for Graphing the Growth Curve and Determining the Increment and Cutting Cycle Period of Sungkai (*Peronema canescens*)

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Jurnal internasional bereputasi

Effect of Lignin or Lignosulfonate Addition on the Fire Resistance of Areca (*Areca catechu*) Particleboards Bonded with Ultra-Low-Emitting Urea-Formaldehyde Resin

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Jurnal internasional bereputasi

Influence of Isocyanate Content and Hot-Pressing Temperatures on the Physical-Mechanical Properties of Particleboard Bonded with a Hybrid Urea-Formaldehyde/Isocyanate Adhesive

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Jurnal internasional bereputasi

Artificial Weathering Effects on the Physical and Chemical Properties of *Paulownia tomentosa* and *Pinus koraiensis* Woods Heat-Treated in Oil and Air

WAHYU HIDAYAT , INTAN FAJAR SURI , APRI HERI ISWANTO , Jong Ho Kim , Se Yeong Park , Nam Hun Kim , Seung Hwan Lee , Byantara Darsan Purusatama

2023

Jurnal internasional bereputasi

Artificial Weathering Effects on the Physical and Chemical Properties of *Paulownia tomentosa* and *Pinus koraiensis* Woods Heat-Treated in Oil and Air

Nam Hun Kim , WAHYU HIDAYAT , Intan Fajar Suri , Byantara Darsan Purusatama , Jong Ho Kim , Se Yeong Park , Seung Hwan Lee , APRI HERI ISWANTO

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Artificial Weathering Effects on the Physical and Chemical Properties of *Paulownia tomentosa* and *Pinus koraiensis* Woods Heat-Treated in Oil and Air

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Adhesion and Cohesion Strength of Phenol-Formaldehyde Resin Mixed with Different Types and Levels of Catalyst for Wood Composites

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Jurnal internasional bereputasi

Preparation and characterization of non-isocyanate polyurethane resins derived from tannin of *Acacia mangium* bark for the modification of ramie fibers

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Jurnal internasional bereputasi

Eco-friendly tanin based non isocyanate polyurethane Resins for the modification of ramie (*boehmeria nivea* L) fibers

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Jurnal internasional bereputasi

Properties of Plywood Bonded with Formaldehyde-Free Adhesive Based on Poly (vinyl alcohol)–Tannin–Hexamine at Different Formulations and Cold-Pressing Times

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Jurnal internasional bereputasi

Eco-Friendly Tannin-Based Non-Isocyanate Polyurethane Resins for the Modification of Ramie (*Boehmeria nivea* L.) Fibers

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Jurnal internasional bereputasi

Influence of Isocyanate Content and Hot-Pressing Temperatures on the Physical–Mechanical Properties of Particleboard Bonded with a Hybrid Urea–Formaldehyde/Isocyanate Adhesive

JAJANG SUTIAWAN , ATMAWI DARWIS , APRI HERI ISWANTO

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Jurnal internasional bereputasi

Characterization of Formacell Lignin Derived from Black Liquor as a Potential Green Additive for Advanced Biocomposites

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Jurnal internasional bereputasi

Development and Characterization of Eco-Friendly Non-Isocyanate Urethane Monomer from *Jatropha curcas* Oil for Wood Composite Applications

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Jurnal internasional bereputasi

Characterization of lignin isolated from oil palm empty fruit bunch using phosphoric acid

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Jurnal internasional bereputasi

The Effect of Active Alkali and Sulfidity Loading on the Kraft Pulp Properties of Sweet Sorghum Bagasse

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Jurnal internasional bereputasi

Characteristics of Simalambuo (*Lophopetalum* sp.) wood from Nias Island, North Sumatra Province, Indonesia

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Jurnal internasional bereputasi

Linear Expansion and Durability of a Composite Boards (MDF Laminated Using Three Selected Wood Veneers) against Drywood Termites

TEKAT DWI CAHYONO , HIKMA YANTI , APRI HERI ISWANTO

2022

Prosiding seminar internasional

Post-modification of ultra-low molar ratio urea-formaldehyde adhesive with different types and levels of organic acid hardener

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Prosiding seminar internasional

Exploration of high-quality wood-producing trees on the Universitas Sumatera Utara (USU) Medan campus's green space

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Jurnal internasional bereputasi

Latest advancements in high-performance bio-based wood adhesives: A critical

review

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Latest advancements in high-performance bio-based wood adhesives: A critical review

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Improvement of Thermal Behavior of Rattan by Lignosulphonate Impregnation Treatment

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Environmentally Friendly Starch-Based Adhesives for Bonding High-Performance Wood Composites: A Review

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Technological Properties of Formaldehyde Free Adhesives Based on Oxidized Starch Mixed with Different Crosslinkers for Plywood

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2022

Jurnal internasional bereputasi

Chemical, Physical, and Mechanical Properties of Belangke Bamboo (*Gigantochloa pruriens*) and Its Application as a Reinforcing Material in Particleboard Manufacturing

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Jurnal internasional bereputasi

Recent developments in lignin modification and its application in lignin-based green composites: A review

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Effect of reaction time on the molecular weight distribution of polyurethane modified epoxy and its properties

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Jurnal internasional bereputasi

Modification of Ramie Fiber via Impregnation with Low Viscosity Bio-Polyurethane Resins Derived from Lignin

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Jurnal internasional bereputasi

Lignin as green filler in polymer composites: development methods, characteristics, and potential applications

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Jurnal internasional bereputasi

Characterization of Indonesian banana species as an alternative cellulose fibers

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2022

Jurnal internasional bereputasi

Recent progress in ultra-low formaldehyde emitting adhesive systems and formaldehyde scavengers in wood-based panels: a review

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2022

Jurnal internasional bereputasi

Thermal and mechanical performance of ramie fibers modified with polyurethane resins derived from acacia mangium bark tannin

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Jurnal internasional bereputasi

A review on Lantana camara lignocellulose fiberâ€™reinforced polymer composites

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2022

Jurnal internasional bereputasi

Performance of eco-friendly particleboard from agroindustrial residues bonded with formaldehyde-free natural rubber latex adhesive for interior applications

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2022

Jurnal internasional bereputasi

Physical and Chemical Properties of Acacia mangium Lignin Isolated from Pulp Mill Byproduct for Potential Application in Wood Composites

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2022

Jurnal internasional bereputasi

Recent Advances in the Development of Fire-Resistant Biocompositesâ€™A Review

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Jurnal internasional bereputasi

A recent advancement on preparation, characterization and application of nanolignin

APRI HERI ISWANTO

2021

Jurnal internasional bereputasi

A comprehensive review on natural fibers: Technological and socio-economical aspects

APRI HERI ISWANTO

2021

Prosiding seminar internasional

Particleboard from kemenyan wood and belangke bamboo: Effect of particle pre-treatment in acidic solution

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2021

Jurnal internasional bereputasi

Enhancing thermal and mechanical properties of ramie fiber via impregnation by lignin-based polyurethane resin

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2021

Jurnal internasional bereputasi

Optimization of maleic acid pretreatment of oil palm empty fruit bunches (OPEFB) using response surface methodology to produce reducing sugars

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Researches

2024

Penelitian Fundamental

Karakteristik Aren Berdasarkan Kondisi Biofisik Wilayah Menggunakan Analisis Geospasial Di Sulawesi Selatan

APRI HERI ISWANTO , MAKKARENNU , CHAIRIL A , IRA TASKIRAWATI , SYAHIDAH , ANDANG SURYANA SOMA , MUHAMMAD FAGIL AKBAR , NUR REZY PARASITA , MUHAMMAD LUTHFI ALFITRA , SULKIFLI

2023

Pengembangan Perekat Poliuretan Ramah Lingkungan Non Isosianat Untuk Produk Panel Kayu

APRI HERI ISWANTO , JAJANG SUTIAWAN , Muhammad Adly Rahandi Lubis

2022

Pengembangan Gambir dari Sumatera Utara sebagai Perekat Alami Ramah Lingkungan

APRI HERI ISWANTO , TITO SUCIPTO

2022

Penelitian Unggulan Perguruan Tinggi

PEMANFAATAN BAMBU LAMINASI SEBAGAI BAHAN BANGUNAN BERKUALITAS TINGGI

APRI HERI ISWANTO , RUDI HARTONO , FANNI ADWITA TAMBUNAN , FAULANS VAREZ ANTONIO PURBA , Trisna Priadi

2021

Perlakuan Awal Partikel Untuk Meningkatkan Kualitas Papan Partikel Berbahan Baku Kotoran Gajah

APRI HERI ISWANTO , RUDI HARTONO

2021

Penelitian Unggulan Perguruan Tinggi

PEMANFAATAN BAMBU LAMINASI SEBAGAI BAHAN BANGUNAN BERKUALITAS TINGGI

APRI HERI ISWANTO , RUDI HARTONO , LAZUARDI AGUNG NUGROHO , FARHAN FARIZKY , AZHARI MEDIO , Trisna Priadi

2015

Penelitian Unggulan Perguruan Tinggi

PEMANFAATAN LIMBAH KAYU DARI INDUSTRI PENGGERGAJIAN SEBAGAI BAHAN BAKU PAPAN PAR

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Intellectual Property Rights

2024

Paten nasional

Proses Pembuatan Papan Laminasi Bambu termodifikasi Asam Sitrat, Asam Boraks, dan Polistirena

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2024

Paten nasional

PROSES PEMBUATAN PAPAN LAMINASI BAMBU TERMODIFIKASI ASAM SITRAT, ASAM BORAKS, DAN POLISTIRENA

RUDI HARTONO , APRI HERI ISWANTO , Jajang Sutiawan , Trisna Priadi