Prof. Dr. Rudi Hartono, S.Hut., M.Si.

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Prof. Dr. Rudi Hartono, S.Hut., M.Si., IPM is the third of six children born on April 9, 1970. He took his undergraduate education at Institut Pertanian Bogor (IPB) and graduated in 1994 with a Bachelor of Forestry (S.Hut). Then, he continued his studies at the same campus and graduated in 2001 with a Master of Science (M.Si). Not stopping there, with high learning determination, he then continued his education at the same campus and graduated in 2012 as a Doctor (Dr.). Since 2003, he has devoted himself to being a lecturer at the USU Faculty of Forestry in the field of Forest Products Technology, especially wood modification. In 2021, to be precise, on May 17, 2021, he was entrusted to carry out the mandate as Dean of the USU Faculty of Forestry. Although he has various activities, until now, he has been active in conducting various research and community services in his field.

Publications

2026
Jurnal internasional bereputasi

Improving Polyurethane Foam Composites through Bamboo FibreReinforcement: Effect of FibreLoading

RUDI HARTONO , Mohd Radzi bin Ali , Mohd Zuhri Mohamed Yusoff , Muhammad Huzaifah Mohd Roslim , Khalina Abdan , MohammadJawaid , Ahmad Ilyas Rushdan , Thinesh Sharma Balakrishnan

2025
Prosiding seminar internasional

Performance of Citric Acid, Boric Acid, Polystyrene Impregnated Bamboo Laminated Boards

RUDI HARTONO , PUTRI HONEY MIFTASYA , Muhammad Navis Rofii , Aprilia Kartikawati , Jajang Sutiawan

2025
Prosiding seminar internasional

Potential and Distribution of Bamboo Species in Forest Areas with Special Purpose Pondok Buluh Forest Education and Training, Simalungun Regency

RUDI HARTONO , LAZUARDI AGUNG NUGROHO , Elza Havid , Jajang Sutiawan

2025
Jurnal internasional bereputasi

Enhancing Jabon (Anthocephalus cadamba) Laminated Board Properties with Impregnation of Citric Acid, Boric Acid, and Polystyrene

RUDI HARTONO , MUHAMMAD NAVIS ROFII , IHAK SUMARDI , RAYNATA ANDINI BR TARIGAN , Aprilia Kartikawati , Jajang Sutiawan , Falah Abu , A.M. Radzi

2025
Prosiding seminar internasional

Distribution Vascular Bundles and Moisture Content of Oil Palm Trunk

IHAK SUMARDI , RUDI HARTONO , ENI SUHESTI

2024
Jurnal internasional bereputasi

Belangke Bamboo (Gigantochloa pruriens) Laminated Board Modified with Polystyrene, Citric, and Boric Acid: Resistance from Termite and Decay

Attacks

RUDI HARTONO , Jajang Sutiawan , Sukma Surya Kusumah , Didi Tarmadi , Bramantyo Wikantyoso , Setiawan Khoirul Himmi , Deni Zulfiana , Falah Abu , Adlin S. Muhammad Roseley

2024
Jurnal internasional bereputasi

Physical and Mechanical Properties of Laminated Board from Betung Bamboo (Dendrocalamus asper)

RUDI HARTONO , MUHAMMAD NAVIS ROFII , TOMY LISTYANTO , IHAK SUMARDI , MICHAEL JOSE MAIRING

2024
Prosiding seminar internasional

Improvement of physical and mechanical properties of belangke bamboo (Gigantochloa pruriens) laminated boards using boric acid immersion

RUDI HARTONO , IHAK SUMARDI , ADINDA RAHMAYANI , Jajang Sutiawan , MUHAMMAD NAVIS ROFII

2024
Prosiding seminar internasional

Physical and mechanical properties of belangke (Gigantochloa pruriens) bamboo laminated boards modified with citric acid

RUDIANTO AMIRTA , JAJANG SUTIAWAN , MUHAMMAD FIRZA AKBAR , RUDI HARTONO , FARAH DIBA

2024
Jurnal internasional bereputasi

Thermal Properties' Enhancement of PLA-Starch-Based Polymer Composite Using Sucrose

RUDI HARTONO , Jajang Sutiawan , Sri Yustikasari Massijaya , Wida Banar Kusumaningrum , YEYEN NURHAMIYAH , Muhammad Adly Rahandi Lubis , Iman Hidayat , Rossy Choerun Nissa , Riska Surya Ningrum , Sukma Surya Kusumah , Resti Marlina , LINA KARLINASARI

2024
Jurnal internasional bereputasi

Biodeterioration Field Test and Mechanical Properties of Maesopsis eminii Wood Treated with Boron Preservative and Plant Oils

TRISNA PRIADI , Muhammad Hilmy Badruzzaman , Nurul Sofiaturizkiyah , RUDI HARTONO , Andi Hermawan , Ir. Jamaludin Malik, S.Hut., M.T., Ph.D., IPU

2024
Jurnal internasional bereputasi

Properties of laminated board from Belangke bamboo (Gigantochloa pruriens) modified with citric acid, boric acid, and polystyrene

RUDI HARTONO , MUHAMMAD NAVIS ROFII , Jajang Sutiawan , PUTRI FADHIRA MULIANI , Putri Amanda , IHAK SUMARDI

2024
Jurnal internasional bereputasi

Drying Efficiency of Betung Bamboo Strips (Dendrocalamus asper) Based on Different Solar Drying Oven Designs

Rudi DUNGANI , Neil PRIHANTO , Yoyo SUHAYA , Ihak Sumardi , Alfi RUMIDATUL , Anggit Kusuma Dewan DARU , RUDI HARTONO

2024
Jurnal internasional bereputasi

Drying Efficiency of Betung Bamboo Strips (Dendrocalamus asper) Based on Different Solar Drying Oven Designs

IHAK SUMARDI , RUDI HARTONO , RUDI , YOYO SUHAYA , ALFI RUMIDATUL , NEIL PRIHARTO

2023
Prosiding seminar internasional

The effect of densification time on quality of Jabon Wood (Anthocephalus cadamba)

TEKAT DWI CAHYONO , JAJANG SUTIAWAN , TRISNA PRIADI , FARAH DIBA , RUDI HARTONO

2023
Jurnal internasional

The effect of densification time on quality of Jabon Wood (Anthocephalus cadamba)

RIANA ANGGRAINI , RUDI HARTONO , TEKAT DWI CAHYONO , Trisna Priadi , TRISNA PRIADI , JAJANG SUTIAWAN , FARAH

DIBA , Farah Diba

2023
Jurnal internasional bereputasi

Termite and Decay Resistances of Sumatran Elephant Dung-based Particleboard Modified with Wood Shavings and Bamboo Layering

RUDI HARTONO , JAJANG SUTIAWAN , DEDE HERMAWAN , Santiyo Wibowo , Deni Zulfiana

2023
Prosiding seminar internasional

Quality Assessment on Honey Produced from Six Months Old Acacia crassicarpa

RUDI HARTONO

2022
Jurnal internasional bereputasi

Properties of Table Tennis Blade from Sorghum Bagasse Particleboard Bonded with Maleic Acid Adhesive at Different Pressing Temperatures and Times

JAJANG SUTIAWAN , RUDI HARTONO

2022
Prosiding seminar internasional

Fiber Quality of Yellow Bamboo (Bambusa vulgaris vitata) from Forest Area with Special Purpose Pondok Buluh, Simalungun Regency, North Sumatera Province

APRI HERI ISWANTO , JAJANG SUTIAWAN , RUDI HARTONO

2022
Prosiding seminar internasional

Fiber Quality of Betung Bamboo (Dendrocalamus asper) from Forest Area with Special Purpose (FASP) Pondok Buluh, Simalungun, North Sumatera

RUDI HARTONO , JAJANG SUTIAWAN

2022
Jurnal nasional terakreditasi

Bio-Attractant of Termites Bait from Waste Paper and Extract Ocimum basilicum Linn against Subterranean Termites Coptotermes curvignathus Holmgren

RUDI HARTONO , FARAH DIBA , NURHAIDA , MUHAMMAD DIRHAMSYAH , PALGUNA WIRANATA

2022
Jurnal internasional bereputasi

The Improvement of Sumatran Elephant (Elephas maximussumatranus) Dung Particleboard Characteristics Using Bamboo Layering

JAJANG SUTIAWAN , RUDI HARTONO , EVALINA HERAWATI , APRI HERI ISWANTO

2021
Prosiding seminar internasional

The influence of particle soaking in acetic acid and NaOH solutions on the quality of sandwich particleboard from raru wood and belangke bamboo

APRI HERI ISWANTO , RUDI HARTONO , ARIDA SUSILOWATI

2021
Jurnal internasional bereputasi

Short Communication: The resistance of Styrax sumatrana wood of varying growth sites and stem axial positions to subterranean termite (Coptotermes curvignathus) attack

ARIDA SUSILOWATI , APRI HERI ISWANTO , RUDI HARTONO

2020
Jurnal internasional bereputasi

Variation of Quantitative Anatomical Characteristics in the Culm of Belangke Bamboo (Gigantochloa pruriens)

APRI HERI ISWANTO , RUDI HARTONO , ARIDA SUSILOWATI

2019
Prosiding seminar internasional

The effect of phenol formaldehyde impregnation at various concentrations on quality of densified-oil palm trunk

RUDI HARTONO

2019
Prosiding seminar internasional

Effect of impregnation methods and bioresin concentration on physical and mechanical properties of soft-inner part of oil palm trunk

RUDI HARTONO

2019
Jurnal internasional bereputasi

Variation in chemical constituent of Styrax sumatrana wood growing at different cultivation site in North Sumatra, Indonesia

APRI HERI ISWANTO , RUDI HARTONO , ARIDA SUSILOWATI

2018
Prosiding seminar internasional

Effect of Particle Pre-treatment on Physical and Mechanical Properties of Particleboard Made from Oil Palm Trunk

RUDI HARTONO , TITO SUCIPTO , APRI HERI ISWANTO

2018
Prosiding seminar internasional

Quality improvement of laminated board made from oil palm trunk at various outer layer using phenol formaldehyde adhesive

RUDI HARTONO , TITO SUCIPTO

2018
Prosiding seminar internasional

Determination of wood wettability properties of oil palm trunk, Shorea sp. and Paraserianthes falcataria by contact angle method

TITO SUCIPTO , RUDI HARTONO

2017
Prosiding seminar internasional

Fixation of Soft-inner Part of Oil Palm Trunk by Close System Compression Method

RUDI HARTONO

2017
Jurnal internasional bereputasi

Physical and mechanical properties of three-layer particleboards bonded with UF and UMF adhesives

APRI HERI ISWANTO , RUDI HARTONO , IRAWATI AZHAR , TITO SUCIPTO

2016
Jurnal internasional bereputasi

Effect of Phenol Formaldehyde Impregnation on The Physical and Mechanical Properties of Soft-Inner Part of Oil Palm Trunk1

RUDI HARTONO

2016
Jurnal internasional bereputasi

Quality improvement of oil palm trunk properties by close system compression method

RUDI HARTONO

Researches

2026
Penelitian Kerjasama Antar Perguruan Tinggi

Pengembangan Bambu Komposit Sebagai Housing Component dalam Mendukung Program Hilirisasi Industri

RUDI HARTONO , JAJANG SUTIAWAN , Arif Delviawan

2025
Penelitian Kerjasama Antar Perguruan Tinggi

Pengembangan Bambu Laminasi Sebagai Bahan Baku Bangunan dalam Mendukung Program Asta Cita Indonesia

MUHAMMAD NAVIS ROFII , RUDI HARTONO , Jajang Sutiawan

2023
Penelitian Kerjasama Antar Perguruan Tinggi

Karakteristik Bambu Hybrid Laminasi Sebagai Alternatif Pengganti Kayu

MUHAMMAD NAVIS ROFII , RUDI HARTONO , IHAK SUMARDI

2022
Penelitian Kerjasama Antar Perguruan Tinggi

Ketahanan Terhadap Rayap dan Jamur Papan Partikel Serat Kotoran Gajah Sumatera (Elephas maximus Sumatranus) Termodifikasi Serutan Kayu dan Lapisan Bambu

JAJANG SUTIAWAN , RUDI HARTONO , DESY YANBINA BORU SIMANJORANG , WIDIA AFRIANI , M.FACHRUL ROZI , VICI FRASUDA , Dede Hermawan

2022

Papan Partikel Bagas Sorgum Berperekat Asam Maleat untuk Bet Tenis Meja

JAJANG SUTIAWAN , RUDI HARTONO

Community Services

2025

Pengurus BKM Al Maimun 2025-2028

RUDI HARTONO , Ahmad Jazuli

2006
Ipteks Bagi Masyarakat

EKSPLORASI POHON PLUS KEMENYAN (Styrax sp) SEBAGAI UPAYA REHABILITASI HUTAN KEMENYAN TERDAMPAK BENCANA LONGSOR DI KABUPATEN TAPANULI UTARA PROVINSI SUMATERA UTARA

JEPRIANTO MANURUNG , MEYLIDA NURRACHMANIA , AGUNG KARUNIAWAN , YAYAT HIDAYAT , PHILIPPIANS MANURUNG , RUDI HARTONO

2006
Ipteks Bagi Masyarakat

Eksplorasi Pohon Plus Kemenyan (Styrax Sp) Sebagai Upaya Rehabilitasi Hutan Kemenyan Terdampak Bencana Longsor Di Kabupaten Tapanuli Utara Provinsi Sumatera Utara

JEPRIANTO MANURUNG , MEYLIDA NURRACHMANIA , AGUNG KARUNIAWAN , YAYAT HIDAYAT , PHILIPPIANS MANURUNG , RUDI HARTONO

2006
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JEPRIANTO MANURUNG , MEYLIDA NURRACHMANIA , AGUNG KARUNIAWAN , YAYAT HIDAYAT , PHILIPPIANS MANURUNG , RUDI HARTONO

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JEPRIANTO MANURUNG , MEYLIDA NURRACHMANIA , AGUNG KARUNIAWAN , YAYAT HIDAYAT , PHILIPPIANS MANURUNG