

Arif Nuryawan

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Arif Nuryawan is an Associate Professor in the Faculty of Forestry, Universitas Sumatera Utara. His expertise is in the field of forest products technology, particularly wood science, and technology related to adhesive bonding for lignocellulosic materials, interface and interphase for micromorphology assessment, and composite products for innovative substitution of wood. His educational background was a bachelor's degree in forestry from the Department of Forest Products Technology, Faculty of Forestry, IPB University, Indonesia (2001); a master of science from the School of Postgraduate, IPB University, Indonesia (2007); and a Doctor of Philosophy (PhD) from Department of Wood and Paper Science, College Agriculture & Life Sciences, Kyungpook National University, Republic of Korea (South Korea) (2015). As a lecturer, he has actively supervised more than 100 undergraduate students and 5 masters, while as a researcher, he has published more than 50 peer-reviewed articles (in the proceeding, journal, and book chapters). During serving as academician, he also had responsibilities as Secretary of Study Program of Forest Products Technology, Faculty of Agriculture, USU (2004-2005), Head of Laboratory of Forest Products Technology, Faculty of Agriculture, USU (2010-2011), Head of Laboratory of Forest Products Technology, Faculty of Forestry, USU (2015-2016), Head of Department of Forest Products Technology, Faculty of Forestry, USU (2017-2021), Section Head for Research, Development, Innovation, and Partnership, Integrated Research Laboratory, USU (2021-2022), Manager of Global Partnership, Directorate of Internationalization & Global Partnership, USU (2022), and Secretary to Director, Directorate of Internationalization & Global Partnership, USU (2023-now). To develop his career in academia, he has been actively involved in the Center of Excellence for Mangrove USU and established a Cluster of Knowledge of Wood Adhesive. From this point, many collaborations with peers have been carried out nationally and internationally.

Publications

2026

Jurnal nasional terakreditasi

Community-based product standardization education to strengthen human resource capacity of The Peduli Pesisir forest farmer group in Beras Basah Village, Langkat District, North Sumatra

BEJO SLAMET , ARIF NURYAWAN , AGUS PURWOKO , MOHAMMAD BASYUNI , IWAN RISNASARI , Reiko Omoto , RIDWANTI BATUBARA

2026

Jurnal internasional bereputasi

Alkaline Hydrogen Peroxide-Peroxycitric Acid (AHP-HPCA): Oxygen-Based Method for MicroCrystalline Cellulose (MCC) Production from Sago Pith Waste

ARIF NURYAWAN , MAKHMUDUN AINURI , Nanang Masruchin

2026

Jurnal internasional bereputasi

Hybrid paving and brick blocks: plastic and wood waste for cooler and safer buildings

ARIF NURYAWAN , RAHMI KAROLINA , Muhammad Andhika Ramadhan

2026

Jurnal internasional bereputasi

Innovative Thermoplastics Composites Made from Recycled Poly(Propylene) Reinforced with Coconut Coir Fibers

2026
Jurnal internasional bereputasi

From Solution to Solid Form: Crystallisation Methods and Their Role in Pharmaceutical Polymorphism of L-isoleucine

ARIF NURYAWAN , Siti Nur'Aqilah Irwan , Nurshahzanani Shahrir , Vanessa Shallomy Darrell , Muhamad Fitri Othman , Nornizar Anuar

2025
Prosiding seminar internasional

Valorization of candlenut shell waste into bio-char and liquid smoke (bio-oil)

ARIF NURYAWAN , Ir. VIVI PURWANDARI, M.Si , Muhammad Arif , Naudi Hayati Siregar

2025
Prosiding seminar internasional

The Influence of nectar sources, stup types of stingless bee (Heterotrigona itama) to produce honey bee in Langkat Mangrove area, Northern Sumatra

MOHAMMAD BASYUNI , AMEILIA ZULIYANTI SIREGAR , ETTI SARTINA SIREGAR , ARIF NURYAWAN , ERNI JUMILAWATY , IWAN RISNASARI , FAUJIAH NURHASANAH RITONGA

2025
Prosiding seminar internasional

Kemiri (Aleurites moluccana) shell for solid bioenergy and liquid bioproduct applications

ARIF NURYAWAN , LUTHFI HAKIM , HIMSAR AMBARITA , ARIDA SUSILOWATI , Muhammad Arif , Vivi Purwandari , Scott Q. Turn

2025
Jurnal internasional bereputasi

Physical, chemical, mechanical, and thermal properties of charcoal briquettes produced from mangrove branch wood

SENTAGI SESOTYA UTAMI , ARIF NURYAWAN , IWAN RISNASARI , TAUFIQ BIN NUR , MOHAMMAD BASYUNI , HARDIANSYAH TAMBUNAN , Jhonny Simatupang , Widya Fatriasari , Bora Jeong

2025
Prosiding seminar internasional

Evaporator design for the hydrogen-rich syngas production process from palm oil mill solid waste using steam methane reformer

TAUFIQ BIN NUR , ARIF NURYAWAN , RULIANDA PURNOMO WIBOWO

2025
Jurnal nasional terakreditasi

The enrichment of Kelulut (Trigona spp.) feeding plants for its sustainability in mangrove ecotourism Beras Basah Village, Langkat Regency, North Sumatra, Indonesia

YUNIDA BERLIANA , ARIF NURYAWAN , RITA ROSMALA DEWI , KARINA MIA BERUTU , DEDI KURNIAWAN

2025
Jurnal nasional terakreditasi

The enrichment of Kelulut (Trigonaspp.) feeding plants for its sustainability in mangrove ecotourismBeras Basah Village, Langkat Regency, North Sumatra, Indonesia

ARIF NURYAWAN , RITA ROSMALA DEWI , KARINA MIA BERUTU , DEDI KURNIAWAN , YUNIDA BERLIANA , Reiko Omoto

2025
Jurnal internasional bereputasi

Characterisation of branch and twig mangrove bio-pellets as solid energy carriers for coastal communities

ARIF NURYAWAN , DEWI KURNIANINGSIH ARUM KUSUMAHASTUTI , MARGARETA NOVIAN CAHYANTI , SRI HARTINI , SURYASATRIYA TRIHANDARU , YUSRAN

2025
Jurnal internasional bereputasi

Characterization and Application of Sikkam (<i>Bischofia javanica Blume</i>) as a Natural Dye and Antibacterial Agent for Eco-Printing Textiles

2025

Prosiding seminar internasional

Natural dyes of Purun crafts materials and their effect on fibre dimension and derivative dimensions

ARIF NURYAWAN , IWAN RISNASARI , MOHAMMAD BASYUNI , ODING AFFANDI , LUTHFI HAKIM , RIDWANTI BATUBARA , HARISYAH MANURUNG

2025

Prosiding seminar internasional

An insight into the development of songket prototype made of yarn derived from oil palm trunk fibers

IWAN RISNASARI , ARIF NURYAWAN

2025

Prosiding seminar internasional

An insight into the development of songket prototype made of yarn derived from oil palm trunk fibers

TENGKU SYARFINA , ARIF NURYAWAN , IWAN RISNASARI , NELLA VALENSIA SINAGA , elyse r stanes

2025

Jurnal internasional bereputasi

Study of Ammonium Adsorption Mechanism in Hydrothermalized Pahae Natural Zeolites: Kinetic and Isotherm Adsorption, and Thermodynamics

YUAN ALFINSYAH SIHOMBING , SUSILAWATI , ARIF NURYAWAN , Nanang Masruchin , Mutia Irma , ANDRIAYANI , INDAH REVITA SARAGI

2025

Jurnal internasional bereputasi

Enhancing biopolymer materials with coffee waste-derived reinforcements

ARIF NURYAWAN

2025

Prosiding seminar internasional

Universitas Sumatera Utara Arboretum of Deli Serdang, North Sumatra, Indonesia: Revealing the potency

RAHMAWATY , ARIF NURYAWAN

2025

Prosiding seminar internasional

An insight into the development of songket prototype made of yarn derived from oil palm trunk fibers

ARIF NURYAWAN

2024

Jurnal nasional

Kelulut (Trigona spp) Cultivation to Increase Production and Additional Income of Mangrove Ecotourism Peduli Pesisir Farmer Groups, Beras Basah Village, Pangkalan Susu SubÂ ...

MOHAMMAD BASYUNI , ERNI JUMILAWATY , ARIF NURYAWAN , ETTI SARTINA SIREGAR , NURDIN SULISTİYONO , ALFIAN MUBARAQ , A. AZNAN AZNAWI , BEJO SLAMET

2024

Jurnal nasional

Kelulut (Trigona spp) Cultivation to Increase Production and Additional Income of Mangrove Ecotourism Peduli Pesisir Farmer Groups, Beras Basah Village, Pangkalan Susu SubÂ ...

NURDIN SULISTİYONO , MOHAMMAD BASYUNI , ERNI JUMILAWATY , BEJO SLAMET , ARIF NURYAWAN , ETTI SARTINA SIREGAR

2024

Jurnal internasional bereputasi

Properties of Eco-Friendly Oriented Strand Board Produced from Oil Palm Trunk

ARIF NURYAWAN , RAGIL WIDYORINI , GREITTA KUSUMA DEWI , EDDY HERALDY , Nanang Masruchin

2024

Jurnal internasional bereputasi

Studies on particleboard production using Expanded Polystyrene (EPS) waste as a binder for construction applications

ARIF NURYAWAN , Muhammad Idham Rofdi , Nur Sakinah Mohamed Tamat , Hiroki Sakagami , Andi Hermawan

2024

Jurnal nasional terakreditasi

Utilization of Three Species of Mangrove Wood Branches for Briquettes and Its Preference as Alternative Solid Biofuel

Hardiansyah Tambunan , Andi Hermawan , Bora Jeong , MOHAMMAD BASYUNI , APRI HERI ISWANTO , ARIF NURYAWAN , IWAN RISNASARI

2024

Jurnal internasional bereputasi

Impact of glycerol on oil palm trunk starch bioplastics enhanced with citric-acid epoxidized palm oil oligomers

SAHARMAN GEA , SUCI AISYAH AMATURRAHIM , ARIF NURYAWAN , ELISA JULIANTI , MARPONGAHTUN

2024

Prosiding seminar internasional

Utilization of Acacia auriculiformis tannins as a biomordant material for fabrics in the natural dyeing process using the ecoprint technique

ARTAH SASTA SINAGA , ARIF NURYAWAN , IWAN RISNASARI

2024

Prosiding seminar internasional

Physical, chemical, and thermal properties of branches mangrove wood of Bruguiera gymnorhiza during conversion into charcoal and charcoal briquette

ARIF NURYAWAN , IWAN RISNASARI , TAUFIQ BIN NUR , Jhonny Simatupang , Widya Patriasari

2024

Prosiding seminar internasional

Physical, chemical, and thermal properties of branches mangrove wood of Bruguiera gymnorhiza during conversion into charcoal and charcoal briquette

TAUFIQ BIN NUR , ARIF NURYAWAN

2024

Jurnal internasional bereputasi

Antimicrobial resistance profiles of Escherichia coli derived from an integrated agroforestry-livestock system in Deli Serdang Regency, Indonesia

Saleh Mohammed Jajere , RITA ROSMALA DEWI , ARIF NURYAWAN , IKA JULIANTI TAMBUNAN , JULI MUTIARA SIHOMBING

2024

Prosiding seminar internasional

Birefringence Behaviors of Cellulose Nanocrystals under Varied Concentrations, Ultrasonication Treatments, and Different Solvents

A Lawi , Byung Dae Park , Holilah , Nanang Masruchin , HM Zendrato , R W N Nugroho , M Jayalaksmna , E Mardawati , A Azizan , ARIF NURYAWAN

2023

Prosiding seminar internasional

An Insight of Antimicrobial Resistance in Integrated CropLivestock-Forestry System (ICLFS). A Mini Review

RITA ROSMALA DEWI , ARIF NURYAWAN , IKA JULIANTI TAMBUNAN , JULI MUTIARA SIHOMBING , YUNIDA BERLIANA

2023

Book chapter internasional

Eucalyptus Engineered Wood Products and Other Applications

EKA MULYA ALAMSYAH , ARIF NURYAWAN , HALIMATUDDAHLIANA , Inka Cristy Vera Simorangkir

2023

Jurnal nasional terakreditasi

SIFAT-SIFAT PEREKAT TANIN FORMALDEHIDA DARI BAGIAN CABANG BAKAU HITAM (Rhizophora mucronata): Properties of Tannin Formaldehyde Adhesive Made of Part of Branches Wood of Black

2023

Prosiding seminar internasional

The characterization of Pahae Natural Zeolite and its application on ammonium removal

YUAN ALFINSYAH SIHOMBING , ARIF NURYAWAN , INDAH REVITA SARAGI , SUSILAWATI , ANDRIAYANI , Nanang Masruchin , M Irma

2023

Prosiding seminar internasional

Physical properties of five species of twigs from mangrove forest

Robert Steven Syahputra , ARIF NURYAWAN , IWAN RISNASARI

2023

Prosiding seminar internasional

Physical properties of five species of twigs from mangrove forest

Robert Steven Syahputra , ARIF NURYAWAN , IWAN RISNASARI

2023

Jurnal internasional bereputasi

Characterization and Application of Non-Formaldehyde Binder Based Citric Acid, Maleic Acid, and Molasses Adhesive for Plywood Composite

ARIF NURYAWAN , LUTHFI HAKIM , JAJANG SUTIAWAN

2023

Jurnal nasional terakreditasi

Analysis of the Contribution of Utilization of Non-Wood Forest Products to the Income (Case Study at Some Village Communities Around the Forest of North Tapanuli Regency, North Sumatra, Indonesia)

Donna Christy Pandiangan , TAVI SUPRIANA , ARIF NURYAWAN

2023

Jurnal nasional

Panel products made of oil palm trunk bagasse (OPTB) and MMA (Methyl methacrylate)-styrofoam binder

RAHMI KAROLINA , ARIF NURYAWAN , IWAN RISNASARI

2023

Jurnal internasional bereputasi

Briquettes Made of Branches Wood of Three Mangrove Species Bonded by Starch Adhesive

Hardiansyah Tambunan , APRI HERI ISWANTO , ARIF NURYAWAN , MOHAMMAD BASYUNI , IWAN RISNASARI , Widya Patriasari

2023

Jurnal nasional terakreditasi

Analysis of Microplastic Abundance in Lake Siombak, Medan Marelan, Medan

ARIF NURYAWAN , Jaka Ramananda , TERNALA ALEXANDER BARUS

2023

Jurnal internasional bereputasi

Mangrove cover change (2005-2019) in the Northern of Medan City, North Sumatra, Indonesia

MOEHAR MARAGHIY HARAHAHAP , RAHMAWATY , ARIF NURYAWAN , ABDUL RAUF

2023

Jurnal internasional bereputasi

Mangrove cover change (2005-2019) in the Northern of Medan City, North Sumatra, Indonesia

MOEHAR MARAGHIY HARAHAHAP , RAHMAWATY , ABDUL RAUF , ARIF NURYAWAN

2023

Prosiding seminar internasional

Wood briquettes as a renewable energy resource: A mini-review

JAJANG SUTIAWAN , Hardiansyah Tambunan , ARIF NURYAWAN

2023
Prosiding seminar internasional

Anatomical properties of branches and twigs mangrove woods

IWAN RISNASARI , ARIF NURYAWAN , SUSILAWATI

2022
Prosiding seminar internasional

Utilization of Oil-Palm Leaves for Making Innovative Products: A Comprehensive Review

IWAN RISNASARI , ARIF NURYAWAN

2022
Prosiding seminar internasional

Utilization of Oil-Palm Leaves for Making Innovative Products: A Comprehensive Review

ARIF NURYAWAN , IWAN RISNASARI

2022
Jurnal internasional bereputasi

A Comparative Study of Several Properties of Plywood Bonded with Virgin and Recycled LDPE Films

ARIF NURYAWAN

2022
Jurnal internasional bereputasi

Characteristics of Liquefied Adhesive Made of Oil-Palm Trunk (OPT) and their Application for Particleboard™s Binding

ARIF NURYAWAN , IWAN RISNASARI

2022
Jurnal internasional bereputasi

Influence of Lignin Content and Pressing Time on Plywood Properties Bonded with Cold-Setting Adhesive Based on Poly (Vinyl Alcohol), Lignin, and Hexamine

ARIF NURYAWAN

2022
Jurnal internasional bereputasi

Panel Products Made of Oil Palm Trunk: A Review of Potency, Environmental Aspect, and Comparison with Wood-Based Composites

JAJANG SUTIAWAN , RAHMAWATY , ARIF NURYAWAN

2022
Buku referensi

Penggunaan Melt Flow Index Tester untuk Menentukan Nilai MFR dan MVR Suatu Polimer

AZHARI , ARIF NURYAWAN

2021
Prosiding seminar internasional

Use of biopolybag from tapioca starch and sawdust waste

DELVIAN , IWAN RISNASARI , ARIF NURYAWAN

2021
Jurnal internasional bereputasi

Polyisoprenoid Profiling of Mangrove Litters-based Zonations and Salinity Groups in North Sumatra, Indonesia

MOHAMMAD BASYUNI , ARIF NURYAWAN , ETTI SARTINA SIREGAR , SUMAIYAH

2021
Jurnal internasional bereputasi

Prototypes of innovative and creative products from laboratory of forest products technology

ISFENTI SADALIA , IWAN RISNASARI , ARIF NURYAWAN

2021

Jurnal nasional terakreditasi

PENGOLAHAN LIMBAH TANAMAN MANGROVE SEBAGAI BAHAN PEWARNA ALAMI PADA PRODUK ECOPRINT DI DESA LUBUK KERTANG KABUPATEN LANGKAT, SUMATERA UTARA

MOHAMMAD BASYUNI , DENI ELFIATI , HARISYAH MANURUNG , ARIF NURYAWAN , ERMAN MUNIR , ARIDA SUSILOWATI , BEJO SLAMET , IWAN RISNASARI , APRI HERI ISWANTO

2021

Jurnal internasional bereputasi

Deterioration of wood exposed to mangrove ecosystem

ARIF NURYAWAN , RIDWANTI BATUBARA , IWAN RISNASARI

2021

Jurnal nasional terakreditasi

Editorial 2021: Letter from the Board of the Journal of Sylva Indonesiana (JSI)

APRI HERI ISWANTO , ARIF NURYAWAN

2021

Jurnal nasional terakreditasi

Editorial 2021: Letter from the Board of the Journal of Sylva Indonesiana (JSI)

ARIF NURYAWAN , APRI HERI ISWANTO

2021

Jurnal internasional bereputasi

Potential compounds from several Indonesian plants to prevent SARS-CoV-2 infection: A mini-review of SARS-CoV-2 therapeutic targets

ETTI SARTINA SIREGAR , MOHAMMAD BASYUNI , ARIF NURYAWAN , SUMAIYAH

2020

Jurnal internasional bereputasi

Effects of polyisoprenoids from *Avicennia lanata* and *Avicennia alba* leaves on the gene expression of PI3K, Akt1, mTOR, P53, and EGFR in human colorectal adenocarcinoma WiDr cells

ARIF NURYAWAN , POPPY ANJELISA ZAITUN HASIBUAN , SUMAIYAH , ETTI SARTINA SIREGAR , MOHAMMAD BASYUNI

2020

Jurnal internasional bereputasi

Properties of fibreboard (FBs) and recycle fibreboard (rFBs) and analysis of their wastage after recycling

KANSIH SRI HARTINI , IWAN RISNASARI , RAHMADHANI BANUREA , ARIF NURYAWAN , TULUS IKHSAN NASUTION

2020

Jurnal internasional bereputasi

Enhancement of Oil Palm Waste Nanoparticles on the Properties and Characterization of Hybrid Plywood Biocomposites

ARIF NURYAWAN , IWAN RISNASARI

2020

Jurnal nasional terakreditasi

Eco-print on Recycle Paper/ Fabricas Main Products of Business Development Program of Intellectual Property Campus of Universitas Sumatera Utara

ARIF NURYAWAN

2020

Jurnal internasional bereputasi

The Anticancer Compound Dolichol from *Ceriops tagal* and *Rhizophora mucronata* Leaves Regulates Gene Expressions in WiDr Colon Cancer

ETTI SARTINA SIREGAR , ARIF NURYAWAN , POPPY ANJELISA ZAITUN HASIBUAN , SUMAIYAH , MOHAMMAD BASYUNI

2020

Prosiding seminar internasional

Starch Based Adhesives Made From Durian Seed Through Dextrinization

ARIF NURYAWAN , EKA MULYA ALAMSYAH , RIDWANSYAH , RAGIL WIDYORINI

2020

Jurnal internasional bereputasi

Identifying best parameters of particleboard bonded with dextrin-based adhesives

EKA MULYA ALAMSYAH , SUTRISNO , ARIF NURYAWAN , RAGIL WIDYORINI

2020

Jurnal internasional bereputasi

Application of liquefied adhesive made of oil-palm stem for particleboard binder

IWAN RISNASARI , ARIF NURYAWAN

2019

Jurnal internasional bereputasi

Prominent secondary metabolites from selected genus of Avicennia leaves

ARIF NURYAWAN , POPPY ANJELISA ZAITUN HASIBUAN , SUMAIYAH , MOHAMMAD BASYUNI , ETTI SARTINA SIREGAR

2019

Jurnal internasional bereputasi

Effect of salt and fresh water concentration on polyisoprenoid content in bruguiera cylindrica seedlings

SUMAIYAH , POPPY ANJELISA ZAITUN HASIBUAN , ARIF NURYAWAN , ETTI SARTINA SIREGAR , MOHAMMAD BASYUNI

2019

Prosiding seminar internasional

Characteristics and Morphology of Biodegradable Plastics from Oil Palm Waste for Agricultural and Forestry Applications

DELVIAN , IWAN RISNASARI , ARIF NURYAWAN , RIDWANSYAH

2018

Prosiding seminar internasional

Developing community-based mangrove management through eco-tourism in North Sumatra, Indonesia

BEJO SLAMET , MOHAMMAD BASYUNI , RUSDI LEIDONALD , ARIF NURYAWAN , NURDIN SULISTIYONO

2018

Book chapter internasional

Applied Adhesive Bonding in Science and Technology

EKA MULYA ALAMSYAH , ARIF NURYAWAN

Researches

2026

PENGELOLAAN MANGROVE INOVATIF UNTUK SOLUSI IKLIM ALAMI DAN KESEJAHTERAAN MASYARAKAT

APRI HERI ISWANTO , ERNI JUMILAWATY , MOHAMMAD BASYUNI , BEJO SLAMET , ERMAN MUNIR , ARIF NURYAWAN , ODING AFFANDI , ETTI SARTINA SIREGAR

2025

Ipteks

Gasifikasi Biomassa Terintegrasi Pirolisis, dan Sel Bahan Bakar Membran Elektrolit Polimer (PEMFC) untuk Produksi Hidrogen dan Listrik

M. SABRI , ARIF NURYAWAN , RULIANDA PURNOMO WIBOWO , TAUFIQ BIN NUR , CUT SITI NAILA FAKHIRA , AZIZI FAUZAN SYAHMARA VEMPIDOU , SEPTIAWAN NUGRAHA , KRISNA ADITYA RAHMAN , Syafie Syam

2025

Penelitian Unggulan Perguruan Tinggi

Revitalisasi dan Pengembangan Songket Melayu Langkat

MAULY PURBA , TENGKU SYARFINA , MAHRIYUNI , ARIF NURYAWAN , T THYRHAYA ZEIN

2025

RIIM Kompetisi Gelombang 7 Epidemiologi Resistensi Antibiotik dan Gen Penyandi Resisten Colistin mcr-1 pada Escherichia coli di Daerah Interface Ternak-Satwa Liar sekitar Kawasan Agrosilvopastoral dalam perspektif One Health

2024

Penelitian Unggulan Perguruan Tinggi

Pengembangan Desain Motif Songket dan Pengembangan Bahan Baku Songket Berbasis Bahan Alam

MAULY PURBA , ROHANI GANIE , MAHRIYUNI , ARIF NURYAWAN

2024

PKR Ekologi Mangrove: Innovative Mangrove Management for Natural Climate Solution and Community Welfare

ERNI JUMILAWATY , MOHAMMAD BASYUNI , BEJO SLAMET , AMELIA ZULIYANTI SIREGAR , DENI ELFIATI , IWAN RISNASARI , ARIDA SUSILOWATI , NURDIN SULISTIYONO , ARIF NURYAWAN , Oding AFFANDI , MASITTA TANJUNG , ETTI SARTINA SIREGAR

2024

Pemanfaatan Metabolit Sekunder Limbah Gergajian Sebagai Zat Warna Alami Dan Agen Anti Bakteri Pada Tekstil Untuk Fashion Ramah Lingkungan Lanjutan

RENNY PURNAWATI , IWAN RISNASARI , ARIF NURYAWAN , Nissa Nurfajrin Solihat , Maya Ismayati

2024

Pellet dari cabang pohon bakau sebagai alternatif bio-energi ramah lingkungan dan produk inovatif masyarakat sekitar hutan mangrove: cara produksi dan sifat-sifatnya

IWAN RISNASARI , ARIF NURYAWAN

2024

Ipteks Bagi Inovasi Kreativitas Kampus

Penelitian dan Pengembangan Desain Motif Songket Berbasis Bahan Alam

MAULY PURBA , MUHAMMAD YUSUF , MAHRIYUNI , ARIF NURYAWAN

2024

Pemanfaatan Limbah Biomassa Mangrove Sebagai Zat Warna Alam Beserta Karakterisasinya Sebagai Agen Antibakteri dan Antioksidan pada Tekstil

DENI ELFIATI , IWAN RISNASARI , SITI NIKMATIN , ARIF NURYAWAN , Nissa Nurfajrin Solihat , Maya Ismayati

2024

Penelitian Strategis Nasional

Sistem Integrasi Pirolisis dengan Gasifikasi untuk Konversi Biomassa Limbah Perkebunan Menjadi Syngas yang kaya Hidrogen (hydrogen-rich syngas)

ARIF NURYAWAN , RULIANDA PURNOMO WIBOWO , TAUFIQ BIN NUR , MUHAMMAD ZEIN , RIDHO FINDONTA TARIGAN , TEGAR USRI ANANDA , MUHAMMAD IBRAHIM SYAH

2023

Pemanfaatan Metabolit Sekunder dari Limbah Kayu Gergajian sebagai Zat Warna Alami dan Agen Anti Bakteri pada Tekstil untuk Fashion Ramah Lingkungan

RENNY PURNAWATI , IWAN RISNASARI , ARIF NURYAWAN , LESTARI PRILIA SIHOMBING , DINDA FADILLAH , MIM DANANG PERDANA HADI SULARSO , MEWYTA MARGARETHA KESOGIHEN , Nissa Nurfajrin Solihat , Maya Ismayati

2023

Pengembangan Vascular Bundle Limbah Batang Sawit sebagai Bahan Baku Benang Komersial

IWAN RISNASARI , ARIF NURYAWAN

2023

Utilization and development vascular bundles of oil palm trunk for making yarn and fabrics

IWAN RISNASARI , ARIF NURYAWAN

2023

Penelitian dan Pembentukan/Pengembangan Kluster Keilmuan & Pusat Unggulan IPTEKS USU

MUHAMMAD YUSUF , TENGKU SYARFINA , MAHRIYUNI , ARIF NURYAWAN

2023

Penelitian Dana Lokal Perguruan Tinggi

PENGEMBANGAN PUI-PUSAT KAJIAN SONGKET

MUHAMMAD YUSUF , TENGKU SYARFINA , MAHRIYUNI , ARIF NURYAWAN , DEDY RAHMAD SITINJAK , Tengku Elvi Rozita

2023

Kerjasama Luar Negeri dan Publikasi Internasional

PENYEDIAAN BIJI BIOPLASTIK BERBASIS BIOMASSA BATANG KELAPA SAWIT MELALUI KOMBINASI ESTERIFIKASI DAN IKAT SILANG MINYAK SAWIT TEREPOKSIDASI-ASAM SITRAT

SUCI AISYAH AMATURRAHIM , SAHARMAN GEA , ARIF NURYAWAN , ELISA JULIANTI

2023

Pengembangan Perekat Kayu Lapis dari Sumber DayaTerbarukan dan Ramah Lingkungan

JAJANG SUTIAWAN , ARIF NURYAWAN , LUTHFI HAKIM , Dede Hermawan

2019

Analisis limbah air dan residu padat pendaurulangan papan partikel untuk produksi pupuk cair untuk bibit tanaman kehutanan

KANSIH SRI HARTINI , ARIF NURYAWAN

2018

Penelitian Dana Lokal Perguruan Tinggi

Komposit Plastik Dengan Pengisi Serat Berlignoselulosa Untuk Polybag Yang Ramah Lingkungan Serta Pengaruhnya Terhadap Pertumbuhan Tanaman

IWAN RISNASARI , ARIF NURYAWAN , DELVIAN

2017

Penelitian Dana Lokal Perguruan Tinggi

Analisis Senyawa Fenolik Limbah Daun Teh dalam Menurunkan Emisi Formaldehida pada Papan Partikel

IWAN RISNASARI , ARIF NURYAWAN

Community Services

2026

Ipteks Bagi Masyarakat

Model Desa Mandiri Peyangghah Leuser: Integrasi Agroforestry MPTS dan Strategi Branding Ekowisata Berbasis Komunitas

ERNI JUMILAWATY , MOHAMMAD BASYUNI , BEJO SLAMET , AMEILIA ZULIYANTI SIREGAR , IWAN RISNASARI , NURDIN SULISTIYONO , FAUJIAH NURHASANAH RITONGA , ARIF NURYAWAN , DELVIAN , NELLY ANNA , ETTI SARTINA SIREGAR

2026

Focus Discussion Group on Reduce Plastics in Environment (Fokus Grup Diskusi mengenai Pengurangan Plastik di Lingkungan)

ERNI JUMILAWATY , IWAN RISNASARI , NOVRIDA HARPAH HASIBUAN , ARIF NURYAWAN

2026

Kerjasama Luar Negeri dan Publikasi Internasional

Focus Discussion Group on Reduce Plastics in Environment (Fokus Grup Diskusi mengenai Pengurangan Plastik di Lingkungan)

ARIF NURYAWAN , Nor Khadijah Mohd Azhari

2026

Ipteks

Community Service-FGD "Reduce Plastic in Environment"

RITA ROSMALA DEWI , ARIF NURYAWAN

2025

INTERNATIONAL COMMUNITY SERVICE TO INCREASE THE CAPACITY OF

HUMAN RESOURCES AT KTH PEDULI PESISIR THROUGH STANDARDIZATION OF FISH PRODUCTS, INCREASING SOCIAL CAPITAL AND INTERNATIONAL MARKETING

MOHAMMAD BASYUNI , BEJO SLAMET , IWAN RISNASARI , ARIF NURYAWAN , RIDWANTI BATUBARA , ODING AFFANDI

2024

Ipteks Bagi Masyarakat

Penanaman vegetasi mangrove dalam upaya pencegahan abrasi di Pantai Mangrove Nagalawan

APRI HERI ISWANTO , MOHAMMAD BASYUNI , DENI ELFIATI , IWAN RISNASARI , TITO SUCIPTO , BUDI UTOMO , EVALINA HERAWATI , ARIF NURYAWAN , AFIFUDDIN DALIMUNTHE , LUTHFI HAKIM , RIDWANTI BATUBARA , YUNASFI , HARISYAH MANURUNG , RUDI HARTONO , NELLY ANNA

2024

Join publication and initiation for collaboration between Centre of Excellent Universitas Sumatera Utara and James Cook University, Australia and follow up research collaboration with University of Wollongong, Australia

RITA ROSMALA DEWI , ARIF NURYAWAN

2023

IMPLEMENTATION OF RIVERBANK CONSERVATION WITH BAMBOO VEGETATION AS EMBANKMENT REINFORCEMENT

ACHMAD DELIANUR NASUTION , SAMSURI , APRI HERI ISWANTO , RIDAHATI RAMBEY , PINDI PATANA , BEJO SLAMET , MA RIFATIN ZAHRAH , IWAN RISNASARI , TITO SUCIPTO , EMMA PATRICIA BANGUN , DWI ENDAH WIDYASTUTI , ORANG KAYA HASNANDA SYAHPUTRA , EVALINA HERAWATI , AGUS PURWOKO , RAHMI KAROLINA , ARIF NURYAWAN , LUTHFI HAKIM , NOVITA ANGGRAINI , HARISYAH MANURUNG , RUDI HARTONO , ALFAN GUNAWAN AHMAD , NELLY ANNA

2022

INTRODUKSI HASIL HUTAN BUKAN KAYU (HHBK) LEBAH MADU Trigona Sp. DI EKOWISATA ARAS NAPAL

APRI HERI ISWANTO , IWAN RISNASARI , JAJANG SUTIAWAN , TITO SUCIPTO , EVALINA HERAWATI , ARIF NURYAWAN , LUTHFI HAKIM , RIDWANTI BATUBARA , HARISYAH MANURUNG , RUDI HARTONO

2022

Kerjasama Luar Negeri dan Publikasi Internasional

Advokasi Pengurangan Penggunaan Plastik Di Lingkungan Tempat Tinggal Kita Dan Pemanfaatan Limbah Plastik Untuk Membuat Produk Yang Bernilai Tambah) (Advocacy Reduce Plastics In Environment And Utilization Plastics Litter For Added Value Products)

HILMA TAMIAM FACHRUDIN , ARIF NURYAWAN

2021

Ipteks Bagi Masyarakat

Pengembangan dan Pemberdayaan Koperasi dan UKM di Daerah Wisata Mangrove, Desa Lubuk Kertang, Kecamatan Berandan Barat, Kabupaten Langkat dengan mengelola limbah tanaman mangrove sebagai bahan pewarna alami melalui teknik ecoprint

IWAN RISNASARI , ARIF NURYAWAN

2020

Ipteks Bagi Masyarakat

Pemanfaatan Limbah Mangrove sebagai Bahan Pewarna Alami pada Kain dengan Teknik Ecoprint

APRI HERI ISWANTO , MOHAMMAD BASYUNI , BEJO SLAMET , DENI ELFIATI , IWAN RISNASARI , ARIDA SUSILOWATI , ERMAN MUNIR , ARIF NURYAWAN , HARISYAH MANURUNG

Intellectual Property Rights

2023

Paten nasional

Metode daur ulang papan partikel dan papan serat berperekat urea-formaldehida

ARIF NURYAWAN

2023

Paten nasional

Metode pembuatan wadah telur dari campuran kertas bekas dan limbah batang sawit berperekat dekstrin biji durian

Jul Afriandi Lubis , ARIF NURYAWAN , IWAN RISNASARI

2023

Paten nasional

METODE EKSTRAKSI DAUN GAMBIR (Uncaria gambir Roxb.) SEBAGAI ZAT WARNA ALAMI (ZWA) DAN MORDAN UNTUK TEKSTIL

ARIF NURYAWAN , IWAN RISNASARI , BEJO SLAMET

2023

Paten nasional

METODE MEMISAHKAN VASCULAR BUNDLES BATANG KELAPA SAWIT DENGAN MENGGUNAKAN PRESSURE COOKER

ARIF NURYAWAN , Hardiansyah Tambunan

2022

Paten nasional

Metode untuk memperoleh pupuk cair dari aktivitas pendaurulangan papan partikel dan papan serat yang direkat dengan urea-formaldehida

ARIF NURYAWAN

2022

Hak cipta nasional

Penggunaan Melt Flow Index Tester untuk Menentukan Nilai MFR dan MVR Suatu Polimer

ARIF NURYAWAN , AZHARI

2026

Hasil penelitian/pemikiran yang tidak dipublikasikan

Influence of Formaldehyde to Urea Mole Ratio of Urea-Formaldehyde Resin Adhesives to Their Thermal Cure Kinetics, Swelling Behavior, Micro-morphology and Penetration into

ARIF NURYAWAN

2026

Hasil penelitian/pemikiran yang tidak dipublikasikan

Pengaruh Ketebalan Vinir Meranti dan Jenis Kayu Cepat tumbuh Berdiameter Kecil terhadap Kualitas Com-ply

ARIF NURYAWAN
