Prof. Arif Nuryawan, S.Hut., M.Si., Ph.D

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Arif Nuryawan merupakan seorang Associate Professor di Fakultas Kehutanan, Universitas Sumatera Utara. Keahliannya terletak dalam bidang teknologi produk hutan, khususnya ilmu dan teknologi kayu terkait perekatan perekat untuk bahan lignoselulosa, antarmuka dan antarfasa untuk penilaian mikromorfologi, serta produk komposit untuk substitusi inovatif kayu. Latar belakang pendidikannya mencakup gelar sarjana kehutanan dari Departemen Teknologi Produk Hutan, Fakultas Kehutanan, Universitas IPB, Indonesia (2001); gelar master ilmu dari Sekolah Pascasarjana, Universitas IPB, Indonesia (2007); dan gelar Doctor of Philosophy (PhD) dari Departemen Ilmu Kayu dan Kertas, College of Agriculture & Life Sciences, Kyungpook National University, Republik Korea (Korea Selatan) (2015). Sebagai dosen, ia telah aktif membimbing lebih dari 100 mahasiswa sarjana dan 5 mahasiswa magister, sementara sebagai peneliti, ia telah menerbitkan lebih dari 50 artikel tinjauan rekan sejawat (dalam prosiding, jurnal, dan bab buku). Selama menjadi akademisi, ia juga memiliki tanggung jawab sebagai Sekretaris Program Studi Teknologi Produk Hutan, Fakultas Pertanian, USU (2004-2005), Kepala Laboratorium Teknologi Produk Hutan, Fakultas Pertanian, USU (2010-2011), Kepala Laboratorium Teknologi Produk Hutan, Fakultas Kehutanan, USU (2015-2016), Kepala Departemen Teknologi Produk Hutan, Fakultas Kehutanan, USU (2017-2021), Kepala Bagian Riset, Pengembangan, Inovasi, dan Kemitraan, Laboratorium Riset Terpadu, USU (2021-2022), Manajer Kemitraan Global, Direktorat Internationalisasi & Kemitraan Global, USU (2022), dan Sekretaris Direktur, Direktorat Internationalisasi & Kemitraan Global, USU (2023-sekarang). Untuk mengembangkan karirnya di dunia akademis, ia aktif terlibat dalam Pusat Unggulan Mangrove USU dan mendirikan Kelompok Pengetahuan Perekat Kayu. Sejak saat itu, banyak kolaborasi dengan rekan sejawat dilakukan secara nasional dan internasional. Rincian lebih lanjut dapat dilihat di https://sinta.kemdikbud.go.id/authors/profile/57362 atau https://www.scopus.com/authid/detail.uri?authorId=55813547000 atau https://orcid.org/0000-0002-4525-6937 atau https://www.webofscience.com/wos/author/record/L-6253-2014. Kesempatan untuk berkolaborasi dapat dihubungi melalui arif5@usu.ac.id atau arifnury@yahoo.com.

Publications

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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

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Buku referensi

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

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Use of biopolybag from tapioca starch and sawdust waste

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

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

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

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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

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

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

DELVIAN , IWAN RISNASARI , ARIF NURYAWAN , RIDWANSYAH

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

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

2018
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Applied Adhesive Bonding in Science and Technology

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Researches

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

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

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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 Peyanggah 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 TAMIAMI 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 intoÂ â¦

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