

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 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

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 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

Enhancing biopolymer materials with coffee waste-derived reinforcements

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 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 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 Jayalaksmama , 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

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

Prosiding seminar internasional

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

JAJANG SUTIAWAN , Hardiansyah Tambunan , ARIF NURYAWAN

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

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

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 nasional terakreditasi

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

ARIF NURYAWAN , APRI HERI ISWANTO

2021

Jurnal nasional terakreditasi

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

APRI HERI ISWANTO , ARIF NURYAWAN

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 nasional terakreditasi

Eco-print on Recycle Paper/ Fabricsas 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

Jurnal internasional bereputasi

Identifying best parameters of particleboard bonded with dextrin-based adhesives

EKA MULYA ALAMSYAH , SUTRISNO , ARIF NURYAWAN , RAGIL WIDYORINI

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

Jurnal internasional bereputasi

Prominent secondary metabolites from selected genus of Avicennia leaves

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

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

Researches

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

RITA ROSMALA DEWI , JULI MUTIARA SIHOMBING , MARIANY RAZALI , ARIF NURYAWAN

2023

Pengembangan Perekat Kayu Lapis dari Sumber DayaTerbarukan dan Ramah Lingkungan

JAJANG SUTIAWAN , ARIF NURYAWAN , LUTHFI HAKIM , Dede Hermawan

Community Services

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

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

Intellectual Property Rights

2023

Paten nasional

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

ARIF NURYAWAN

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

2026

Hasil penelitian/pemikiran yang tidak dipublikasikan

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

ARIF NURYAWAN
