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Dr. Iwan Risnasari was born in Bondowoso, East Java, on August 19, 1973, and is the second of three siblings. She completed her primary education up to high school in Bondowoso in 1992. After finishing her basic education, She pursued her Bachelor's degree in Forest Product Technology at the Faculty of Forestry, Bogor Agricultural Institute (IPB), graduating in 1997. In 2006, She completed her Master's education at the same institution (IPB) in the Forestry Science program and graduated in 2015. After obtaining her Master's degree, Dr. Iwan Risnasari continued her education in the Fiber and Composite Technology doctoral program at the same university.

Since 1999 until now, Dr. Iwan Risnasari has been working as a lecturer at the USU Faculty of Forestry. As a lecturer, She actively engages in various activities related to the Triple Mission of Higher Education, including education, research, and community service. Throughout her career, She has been actively contributing to scholarly works published in reputable journals and proceedings. Currently, Dr. Iwan Risnasari holds the position of Head of the Mechanical Properties Testing Laboratory at the Integrated Laboratory of USU and serves as a member of the Board of the Eco-Printer Indonesia Association (AEPI) Research and Development Division based in Yogyakarta.

Publications

2026

Jurnal internasional bereputasi

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

HARDIANSYAH TAMBUNAN , ARIF NURYAWAN , IWAN RISNASARI , HIM SAR AMBARITA , Nanang Masruchin , Raja Biandi Damanik , Byung Dae Park

2026

Jurnal internasional bereputasi

Bioactive extracts from plant biomass: Antioxidant, antibacterial, and physicochemical characterization

IWAN RISNASARI , Maya Ismayati , Nissa Nurfaejrin Solihat , Fahriya Puspita Sari , Widya Fatriasari

2025

Jurnal nasional terakreditasi

Improving Knowledge in Malay Weaving Business Groups Regarding The Making of Natural Fabric Dye Paste: Peningkatan Pengetahuan Pada Kelompok Usaha Tenun Melayu Mengenai Pembuatan Pasta Pewarna Kain Alami

T ISMANELLY HANUM , POPPY ANJELISA ZAITUN HASIBUAN , IWAN RISNASARI , NAZLINIWATY , ANNISA AULIA RAHMA , PUTRI NABIILAH

2025

Jurnal nasional terakreditasi

The Empowerment and Independence of Assisted Village, Bagan Kuala Through Various Community Services on Ecotourism, Ecoprint Development, Waste Management, and Malaria ...

IWAN RISNASARI

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

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

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

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

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

ARIDA SUSILOWATI , ARIF NURYAWAN , Lia Anggraini Ritonga , MOHAMMAD BASYUNI , IWAN RISNASARI

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

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

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

Prosiding seminar nasional

Peningkatan Keterampilan Ecoprint Bagi Ibu Rumah Tangga Guna Menunjang Program Desa Wisata Sei Glugur Kecamatan Pancur Batu Kabupaten Deli Serdang

IWAN RISNASARI

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

2021

Jurnal internasional bereputasi

Deterioration of wood exposed to mangrove ecosystem

ARIF NURYAWAN , RIDWANTI BATUBARA , IWAN RISNASARI

2021

Jurnal internasional bereputasi

Polyisoprenoids composition in mulberry (Morus alba L.)

IWAN RISNASARI

2020

Jurnal internasional bereputasi

Properties of wood composite plastics made from predominant Low Density Polyethylene (LDPE) plastics and their degradability in nature

IWAN RISNASARI

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 internasional bereputasi

Enhancement of oil palmwaste nanoparticles on the properties and characterization of hybrid plywood biocomposites

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2020

Jurnal internasional bereputasi

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

IWAN RISNASARI , ARIF NURYAWAN

2019

Prosiding seminar internasional

Preparation and characterization of nanocrystalline cellulose using ultrasonic assisted autohydrolysis

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2019

Jurnal internasional bereputasi

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

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2019

Jurnal internasional bereputasi

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

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2019

Jurnal internasional

Characterization of Particleboard from Waste Tea Leaves (Camellia Sinensis L)

and Meranti Wood (Shorea Sp) using Urea-Formaldehyde Adhesive and Its Formaldehyde Emission

IWAN RISNASARI

2019

Jurnal internasional bereputasi

Preparation and characterization of nanocrystalline cellulose using ultrasonic assisted autohydrolysis

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2018

Jurnal internasional

Antioxidant Activity and Preferences Test of Agarwood Leaves Tea (*Aquilaria malaccensis* Lamk) Based on Leaves Drying Methods

IWAN RISNASARI

2018

Jurnal internasional bereputasi

RAPD markers on genetic diversity in three populations of pisifera type of oil palm (*elaeis guineensis*)

IWAN RISNASARI

2018

Jurnal internasional

Preliminary results of wood plastics composite: an innovative eco-friendly product

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2018

Jurnal internasional bereputasi

Characterization of cellulose nanocrystal with cellulose II polymorph from primary sludge and its application to PVA nanocomposites

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2018

Jurnal internasional bereputasi

RAPD markers on genetic diversity in three populations of pisifera type of oil palm (*elaeis guineensis*)

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2017

Jurnal internasional bereputasi

Occurrence and cluster analysis of palm oil (*Elaeis guineensis*) fruit type using Two-Dimensional thin layer chromatography

IWAN RISNASARI

2017

Jurnal internasional bereputasi

Urea-formaldehyde resins: Production, application, and testing

IWAN RISNASARI

2017

Jurnal internasional bereputasi

Occurrence and cluster analysis of palm oil (*Elaeis guineensis*) fruit type using two-dimensional thin layer chromatography

IWAN RISNASARI

2017

Jurnal internasional bereputasi

[-D-09] Properties of Particleboard Bonded with Urea-Formaldehyde (UF) Resins and Their Effects to the Mice Health

IWAN RISNASARI

2017

Jurnal internasional bereputasi

[< 구두-D-09>] Properties of Particleboard Bonded with

Urea-Formaldehyde (UF) Resins and Their Effects to the Mice Health

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2015

Jurnal nasional terakreditasi

Properties of wood plastic composite using primary sludge as filler

IWAN RISNASARI

2015

Jurnal nasional terakreditasi

Kuantifikasi Biomassa Perkebunan Kelapa Sawit Di Langkat, Sumatera Utara

IWAN RISNASARI

2015

Jurnal nasional terakreditasi

The estimation of reserves of biomass aboveground oil palm plantations in northern Sumatra.

IWAN RISNASARI

2013

Jurnal nasional

Studi Pembuatan Papan Partikel dari Limbah Pemanenan Kayu Akasia (*Acacia mangium L.*)

IWAN RISNASARI

2013

Jurnal nasional terakreditasi

Morfologi Mikrofibril Selulosa dari Sludge Primer (Morphology of Microfibrillated Cellulose from Primary Sludge)

IWAN RISNASARI

2012

Jurnal nasional

Karakteristik Balok Laminasi Dari Batang Kelapa (*Cocos Nucifera L.*) Dan Kayu Kemiri (*Aleurites Moluccana Wild.*)(Characteristics of Glued Laminated Beams of Coconut Trunk (*Cocos*

IWAN RISNASARI

2012

Jurnal nasional

Karakteristik Balok laminasi Dari Batang Kelapa dan Kayu Kemiri

IWAN RISNASARI

2011

Jurnal internasional

FUNCTIONAL GROUPS AND TOXICITY OF HEXANE-ETHYL ACETATE FRACTION OF NUTMEG FRUIT (*Myristica fragrans*) OIL FROM BOGOR

IWAN RISNASARI

2009

Jurnal nasional

Karakteristik Papan Com-ply Dari Campuran Kayu Sawit Dan Koran Bekas

IWAN RISNASARI

2009

Jurnal nasional terakreditasi

The Quality Of Composite Board Made Of Waste Oil Palm Stem (*Elaeis Guineensis Jacq*) And Recycle Polyethylene (Pe)

IWAN RISNASARI

Researches

2025

Penelitian Dana Lokal Perguruan Tinggi

Teknik Pengolahan dan Penyusunan Benang Serat Alam dengan Pewarna Alami untuk Pengembangan Songket Melayu dalam Rangka Mendukung Sustainable Fashion

TENGGU SYARFINA , IWAN RISNASARI , ARIF QAEDI HUTAGALUNG , ENZELIKA BR. SIHOTANG , MUSA PRIMA UTAMA
SIMANULLANG , RAFAEL PANJAITAN

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 , Maya Ismayati , Nissa Nurfajrin Solihat

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

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 , Maya Ismayati , Nissa Nurfajrin Solihat

2024

Penelitian Dana Lokal Perguruan Tinggi

Peningkatan Nilai Tambah dan Pemasaran Produk Hasil Hutan Bukan Kayu Anyaman Bambu Melalui "Marketplace" di Desa Padang Mainu Simalungun

SAMSURI , IWAN RISNASARI , EVALINA HERAWATI , HAFIZAH ARINAH

2023

Penelitian Dana Lokal Perguruan Tinggi

PENGEMBANGAN PRODUK BERBAHAN PURUN DAN SERAT PURUN DALAM UPAYA MENDUKUNG PEREKONOMIAN MASYARAKAT DAN PELESTARIAN PURUN SEBAGAI KEARIFAN LOKAL PADA LAHAN GAMBUT

IWAN RISNASARI , RIDWANTI BATUBARA , HARISYAH MANURUNG

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 , MIM DANANG PERDANA HADI
SULARSO , MEWYTA MARGARETHA KESOGIHEN , DINDA FADILLAH , Nissa Nurfajrin Solihat , Maya Ismayati

2023

Pemanfaatan Tanaman Sikkam (*Bischofia javanica* Blume) Sebagai Zat Warna Alam dan Zat Anti Bakteri Pada Tekstil dengan Teknik Ecoprint Serta Kajian Etnobotaninya

RIDAHATI RAMBEY , RENNY PURNAWATI , IWAN RISNASARI , Nissa Nurfajrin Solihat

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

2018

Peningkatan Kualitas Nanokomposit Berpenguat Nanokristal Selulosa dengan Perlakuan Hornifikasi

IWAN RISNASARI , EVALINA HERAWATI

2017

Penelitian Dana Lokal Perguruan Tinggi

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

IWAN RISNASARI , ARIF NURYAWAN

2017

Peningkatan Kualitas Nanokomposit Berpenguat Nanokristal Selulosa dengan Perlakuan Hornifikasi

IWAN RISNASARI , EVALINA HERAWATI

Community Services

2025

Peningkatan Partisipasi Perempuan di Bidang Politik, Hukum, Sosial dan Ekonomi kewenangan Kab/Kota (Pelatihan Eco-Print dan Teknik Shibori) untuk masyarakat di Kecamatan Teluk Nibung Kota Tanjungbalai

IWAN RISNASARI

2025

Pengembangan Produk Unggulan Fakultas Vokasi Universitas Sumatera Utara dengan tema "Signature Local, Real Impact: Produk Unggulan untuk Pembangunan Berkelanjutan"

IWAN RISNASARI

2024

Ipteks Bagi Masyarakat

PENINGKATAN PENGETAHUAN MASYARAKAT MENGENAI PEMBUATAN SEDIAAN PASTA PEWARNA KAIN ALAMI PADA KELOMPOK USAHA BERSAMA TENUN MELAYU DI BANDAR KHALIPAH, SUMATERA UTARA

NAZLINIWATY , IWAN RISNASARI , T ISMANELLY HANUM , POPPY ANJELISA ZAITUN HASIBUAN , PUTRI NABILAH , ANNISA AULIA RAHMA

2024

Peningkatan Pengetahuan Masyarakat Mengenai Pembuatan Sediaan Pasta Pewarna Kain Alami pada Kelompok Usaha Bersama Tenun Melayu di Bandar Khalipah, Sumatera Utara

IWAN RISNASARI , T ISMANELLY HANUM

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

2021

Ipteks Bagi Masyarakat

Pelatihan Ecoprint untuk Para Pengungsi (Imigran) di Kota Medan

IWAN RISNASARI

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

2018

Ipteks Bagi Masyarakat

PENGOLAHAN TEH GAHARU BERSAMA MASYARAKAT DI KABUPATEN

LANGKAT

IWAN RISNASARI , T ISMANELLY HANUM , RIDWANTI BATUBARA

2013

Penelitian Hibah Bersaing

MODEL PENDUGAAN CADANGAN BIOMASSA DAN MASSA KARBON PERKEBUNAN KELAPA SAWIT DI SU

2013

Penelitian Hibah Bersaing

MODEL PENDUGAAN CADANGAN BIOMASSA DAN MASSA KARBON PERKEBUNAN KELAPA SAWIT DI SU

Intellectual Property Rights

2026

Paten nasional

tas laptop ramah lingkungan

EVALINA HERAWATI , LUTHFI HAKIM , HAFIZAH ARINAH , SAMSURI , IWAN RISNASARI

2025

Hak cipta nasional

Nilai Tambah dan Pemasaran Produk Hasil Hutan Bukan Kayu Anyaman Bambu Melalui Pengenalan Sosialisasi Platform Online di Desa Padang Mainu Simalungun

HAFIZAH ARINAH , SAMSURI , IWAN RISNASARI , EVALINA HERAWATI

2025

Paten nasional

Proses Pewarnaan Kain Dengan Teknik Ecoprint Menggunakan Ekstrak Tanaman Sikkam (Bischofia javanica Blume)

IWAN RISNASARI , TENGGU SYARFINA , RIDAHATI RAMBEY , RENNY PURNAWATI , Nissa Nurfajrin Solihat , MAYA ISMAYATI , Widya Fatriasari , Fahriya Puspita Sari

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