

Prof. Dr. Delvian, SP., MP.

Lecturer of Master's Program in Regional and Rural Development Planning Study Program
Postgraduate School
Universitas Sumatera Utara

✉ delvian@usu.ac.id

🌐 sps.usu.ac.id/en/lecturer/drs-delvian

Publications

2026

Jurnal nasional terakreditasi

Spatial Study of Land Cover Change and Degradation of Environmental Carrying Capacity of Settlements in the Coastal Area of Belawan Bahagia 2004-2025

RAHMAWATY , DELVIAN

2025

Jurnal internasional bereputasi

From biomass waste to climate action: characterizing of bioenergy pellet from oil palm fronds and branches wood of mangrove

ARIF NURYAWAN , RIZKI FADHILLAH LUBIS , DELVIAN , RAHMAWATY , JULIZA HIDAYATI

2025

Jurnal internasional bereputasi

Agroforestry-Based Plant Diversity and Its Implications for Ecosystem Restoration in Gunung Leuser National Park, Indonesia

R. HAMDANI HARAHAHAP , RAHMAWATY , DELVIAN , Dr. ENDANG HILMI, SHut, MSi

2025

Prosiding seminar internasional

Carbon stock of forest stand at montane bogs in the Gayo Highlands, Aceh

DELVIAN , RAHMAWATY , ZULFAN ARICO , R. HAMDANI HARAHAHAP , SITI LATIFAH , BUDI UTOMO , Seca Gandaseca , Iyan Robiansyah

2025

Jurnal nasional terakreditasi

Spatial Study of Land Cover Change and Degradation of Environmental Carrying Capacity of Settlements in the Coastal Area of Belawan Bahagia 2004-2025

DELVIAN

2025

Prosiding seminar internasional

Ecological analysis of tree-strata plants in the Pandumaan Sipituhuta Customary Forest Area

ROBERT SIBARANI , RAHMAWATY , DELVIAN , R. HAMDANI HARAHAHAP , Dr. ENDANG HILMI, SHut, MSi

2025

Prosiding seminar internasional

Ecological analysis of tree-strata plants in the Pandumaan Sipituhuta Customary Forest Area

DELVIAN , ROBERT SIBARANI , RAHMAWATY , R. HAMDANI HARAHAHAP , Dr. ENDANG HILMI, SHut, MSi

2025

Prosiding seminar internasional

The implications of land use and land cover changes on the natural environment in North Sumatra

DELVIAN

2025

Jurnal internasional

Analysis of Human Resource Behavior in Solid Medical Waste Management: Case Study From Regional Public Hospitals Drs. H. Amri Tambunan Deli Serdang, Indonesia

DELVIAN , SRI MALEM INDIRAWATI

2025

Prosiding seminar nasional

The Empowerment and Independence of Assisted Village, Bagan Kuala Through Various Community Services on Ecotourism, Ecoprint Development, Waste Management, and Malaria Eradication: Pemberdayaan dan Kemandirian Desa Binaan Bagan Kuala Melalui Berbagai Inisiatif Masyarakat yang Berfokus Pada Ekowisata, Pengembangan Ecoprint, Pengelolaan Sampah, dan Pemberantasan Malaria

DELVIAN

2025

Makalah ilmiah

Developing and assessing the cultural ecosystem services of mangroves in North Sumatra, Indonesia

MOHAMMAD BASYUNI , APRI HERI ISWANTO , DELVIAN , ETTI SARTINA SIREGAR , ARIDA SUSILOWATI , AHMAD BAIQUNI RANGKUTI , ERWIN RIYANTO ARDLI , DARMA BAKTI , DELIANA

2023

Prosiding seminar internasional

Potential analysis of Nipa Palm (Nypa Fruticans) in Singkil

TAVI SUPRIANA , ELISA JULIANTI , DELVIAN

2022

Jurnal nasional terakreditasi

Agroforestry-Based Land Management in the Food Estate Area of Ria-Ria Village, Pollung District, Humbang Hasundutan Regency, North Sumatra

DENI ELFIATI , RIDAHATI RAMBEY , DELVIAN

2022

Prosiding seminar internasional

Potential analysis of Nipa Palm (Nypa Fruticans) in Singkil

DELVIAN , TAVI SUPRIANA , ELISA JULIANTI

2022

Prosiding seminar internasional

Exploring endophytic fungi from Rhizophora spp leaves for improving plant growth

DENI ELFIATI , DELVIAN

2022

Jurnal internasional bereputasi

Short Communication: Occurrence of arbuscular mycorrhizal fungi associated with Casuarina equisetifolia in saline sandy environment, North Sumatra, Indonesia

DELVIAN

2022

Jurnal internasional bereputasi

Occurrence of arbuscular mycorrhizal fungi associated with Casuarina equisetifolia in saline sandy environment, North Sumatra, Indonesia

DELVIAN

2022

Jurnal internasional bereputasi

Occurrence of arbuscular mycorrhizal fungi associated with Casuarina equisetifolia in saline sandy environment, North Sumatra, Indonesia

DELVIAN

2022

Jurnal nasional terakreditasi

Mangrove Utilization as Sources of Ruminant Feed in Belawan Secanang Subdistrict, Medan Belawan District

MARUF TAFSIN , DELVIAN

2022

Prosiding seminar internasional

Potential analysis of Nipa Palm (*Nypa Fruticans*) in Singkil

DELVIAN , ELISA JULIANTI , TAVI SUPRIANA

2022

Prosiding seminar internasional

Utilization of effluent biodigester as a bioactivator for the decomposition of rice husk (*Oryza sativa*) into compost

DELVIAN

2021

Jurnal internasional bereputasi

The undergrowth composition and distribution in different forest area utilization

BUDI UTOMO , TERNALA ALEXANDER BARUS , DELVIAN

2021

Prosiding seminar internasional

Use of biopolybag from tapioca starch and sawdust waste

DELVIAN , IWAN RISNASARI , ARIF NURYAWAN

2021

Prosiding seminar internasional

The effect of forest land allocation on understory plant species associations

TERNALA ALEXANDER BARUS , BUDI UTOMO , DELVIAN

2021

Jurnal nasional

Cultivation of Tilapia (*Oreochromis niloticus*) using the silvofishery method in Tanjungrejo, Percut Sei Tuan, North Sumatra Province

DELVIAN , RIDAHATI RAMBEY , IPANNA ENGGAR SUSETYA , AMANATUL FADHILAH , DENI ELFIATI

2021

Jurnal internasional bereputasi

Improved Salt Tolerance of Lamtoro (*Leucaena leucocephala*) through the Application of Indigenous Mycorrhiza

DELVIAN

2021

Prosiding seminar internasional

Utilization of sugar palm (*Arenga pinnata* Merr) by the communities around the PT Toba Pulp Lestari

DELVIAN , AGUSSABTI , ZULKIFLI

2021

Prosiding seminar internasional

***Glomus etunicatum* improved salt tolerance in *Dalbergia latifolia* Roxb. Through physiological adjustment**

DELVIAN

2021

Jurnal internasional bereputasi

Potential of phosphate solubilizing fungi isolated from peat soils as inoculant biofertilizer

DENI ELFIATI , DELVIAN , HAMIDAH HANUM , ARIDA SUSILOWATI , HENTI HENDALASTUTI RACHMAT

2021

Prosiding seminar internasional

Effect of land use type on arbuscular mycorrhizal fungi diversity in high

altitude of Karo Highland

DELVIAN

2021

Lain-lain

Cultivation of Tilapia (*Oreochromis niloticus*) using the silvofishery method in Tanjungrejo, Percut Sei Tuan, North Sumatra Province

RIDAHATI RAMBEY , IPANNA ENGGAR SUSETYA , DENI ELFIATI , DELVIAN

2020

Jurnal internasional bereputasi

The Growth, Production of Sorghum (*Sorghum bicolor* {L.} Moench) and Changes in Chemical Soil Properties Due To the Treatment of Mulch and Organic Fertilizer

DELVIAN , ABDUL RAUF , T IRMANSYAH

2020

Jurnal internasional bereputasi

THE GROWTH, PRODUCTION OF SORGHUM (*SORGHUM BICOLOR* [L.] MOENCH) AND CHANGES IN CHEMICAL SOIL PROPERTIES DUE TO THE TREATMENT OF MULCH AND ORGANIC FERTILIZER

DELVIAN , T IRMANSYAH , ABDUL RAUF

2020

Jurnal internasional bereputasi

SOIL CHARACTERISTICS OF DRY LAND IN INDRAPURI AND BLANG BINTANG SUBDISTRICTS OF ACEH BESAR REGENCY, ACEH PROVINCE, INDONESIA

DELVIAN , T IRMANSYAH , ABDUL RAUF

2020

Jurnal internasional

The Opportunity of Understorey Species to Absorb Secondary Metabolites in the Soil (Case Study in IUPHHK - Industrial Plantation Forests PT. Toba Pulp Lestari, Tbk)

TERNALA ALEXANDER BARUS , BUDI UTOMO , DELVIAN

2020

Prosiding seminar internasional

The marketing strategy for sugar palm (*Arenga pinnata*) by people around the protected forest aren HPHTI of Toba Pulp Lestari

DELVIAN , AGUSSABTI , IWAN RISNASARI , ZULKIFLI

2020

Prosiding seminar internasional

The roles of FMA in increasing growth and effectiveness of soybean roots on dry land supporting sustainable agriculture in Deli Serdang District

CHAIRANI HANUM L , DELVIAN

2020

Prosiding seminar internasional

Determination of the most dominant cause factors due to erosion in the farmland of Sibolangit sub-district

DELVIAN , ZULKIFLI , ABDUL RAUF

2019

Prosiding seminar internasional

Isolation and identification of decomposer fungi from *Macaranga indica* and *Hibiscus macrophyllus* leaf litter from restoration area of Gunung Leuser National Park

DENI ELFIATI , DELVIAN

2019

Prosiding seminar internasional

The distribution of non-timber forest products in the protected areas (case

study at PT Toba Pulp Lestari concession)

DELVIAN , ZULKIFLI , AGUSSABTI

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

2019

Prosiding seminar internasional

Land cover change analysis of Besitang watershed

BEJO SLAMET , DELVIAN

2019

Jurnal nasional terakreditasi

Growth Rate of Rhizophora apiculata Propaguls in Two Sylvofishery Ponds in Tanjung Rejo Village Percut Sei Tuan District

DELVIAN , RIDAHATI RAMBEY

2019

Prosiding seminar internasional

Utilization of plants colonized by mycorrhizal fungi to reduce Lead in the soil: Greenhouse study

DELVIAN

2019

Prosiding seminar internasional

Effect of salinity on spore germination, hyphal length and root colonization of the Arbuscular Mycorrhizal Fungi

DELVIAN , RIDAHATI RAMBEY

2019

Jurnal nasional

Agroforestry Land Management with the Community of Candi Rejo Village, Biru-Biru District, Deli Serdang, North Sumatra

DENI ELFIATI , DELVIAN , RIDAHATI RAMBEY

2019

Prosiding seminar internasional

Effect of salinity on spore germination, hyphal length and root colonization of the Arbuscular Mycorrhizal Fungi

RIDAHATI RAMBEY , DELVIAN

2018

Prosiding seminar internasional

Decomposition rate of Rhizopora stylosa litter in Tanjung Rejo Village, Deli Serdang Regency, North Sumatera Province

DELVIAN , RIDAHATI RAMBEY

2018

Prosiding seminar internasional

Decomposition rate of Rhizopora stylosa litter in Tanjung Rejo Village, Deli Serdang Regency, North Sumatera Province

DELVIAN , RIDAHATI RAMBEY

2013

Jurnal internasional

Land use change and simulation of hydrological response using integrated NRCS model and base flow for ecohydrological concept at Krueng Peusangan watershed ...

ZULKIFLI , DELVIAN , ICHWANA

Researches

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

2018

Penelitian Dana Lokal Perguruan Tinggi

Fungi Mikoriza Arbuskula dan Salinitas Tanah Serta Potensi Isolatnya dari Ekosistem Pantai

RIDAHATI RAMBEY , DELVIAN

2017

Penelitian Dana Lokal Perguruan Tinggi

Dinamika Sporulasi Fungi Mikoriza Arbuskula pada Tegakan Casuarina equisetifolia Terkait Perubahan Musim dan Variasi Sifat Tanah

RIDAHATI RAMBEY , DELVIAN

Community Services

2024

Ipteks Bagi Masyarakat

Pembentukan Kompos Centre sebagai Wadah Pengabdian dan Pembelajaran pada Masyarakat di Kecamatan Pantai Labu, Kabupaten Deli Serdang.

SARIFUDDIN , NUR ULINA WARNISYAH SEBAYANG , LUTHFI AZIZ MAHMUD SIREGAR , MARIANI BR SEMBIRING , SATIA NEGARA LUBIS , T SABRINA , DELVIAN , T IRMANSYAH

2021

Pengelolaan Lahan Berbasis Agroforestry di Wilayah Food Estate Desa Ria-Ria, Kecamatan Pollung, Kabupaten Humbang Hasundutan, Sumatera Utara

RIDAHATI RAMBEY , DENI ELFIATI , DELVIAN

2020

Penelitian Unggulan Perguruan Tinggi

Pengelolaan Ekosistem Mangrove dengan Metode Silvofishery di Desa Tanjung Rejo, Kecamatan Percut Sei Tuan, Provinsi Sumatera Utara

RIDAHATI RAMBEY , DENI ELFIATI , AMANATUL FADHILAH , IPANNA ENGGAR SUSETYA , DELVIAN

2018

Ipteks Bagi Masyarakat

Teknologi Penanaman Avicennia marina pada Lahan Mangrove Pantai Timur Sumatera Utara

DENI ELFIATI , DELVIAN

2018

Ipteks Bagi Masyarakat

Teknologi Penanaman Avicennia marina pada Lahan Mangrove Pantai Timur Sumatera Utara

DENI ELFIATI , DELVIAN

2018

Ipteks Bagi Masyarakat

Teknologi Penanaman Avicennia marina pada Lahan Mangrove Pantai Timur Sumatera Utara

RIDAHATI RAMBEY , DENI ELFIATI , DELVIAN

2017

Ipteks Bagi Masyarakat

Penanaman Jenis Rhizopora di Hutan Mangrove Percut Sei Tuan Pantai Timur Sumatera Utara

RIDAHATI RAMBEY , DENI ELFIATI , DELVIAN

2016

Ipteks Bagi Masyarakat

Penerapan Teknologi Silvofishery dalam Pengelolaan Kawasan Mangrove yang Berkelanjutan

EDY BATARA MULYA SIREGAR , DELVIAN

2016

Ipteks Bagi Masyarakat

Pembangunan Kebun Benih Tanaman Gaharu (*Aquilaria malaccensis*) sebagai Upaya Konservasi dan Penyediaan Bibit Unggul dan Berkualitas

RIDAHATI RAMBEY , EDY BATARA MULYA SIREGAR , DELVIAN

2016

Ipteks Bagi Masyarakat

Penerapan Teknologi Silvofishery dalam Pengelolaan Kawasan Mangrove yang Berkelanjutan

EDY BATARA MULYA SIREGAR , DELVIAN

2016

Ipteks Bagi Masyarakat

Penerapan Teknologi Silvofishery dalam Pengelolaan Kawasan Mangrove yang Berkelanjutan

RIDAHATI RAMBEY , EDY BATARA MULYA SIREGAR , DELVIAN

Intellectual Property Rights

2026

Hasil penelitian/pemikiran yang tidak dipublikasikan

Aplikasi Asam Humik dan Aktivator Orgadec terhadap Pertumbuhan Bibit Suren (*Toona Sureni*) pada Tanah Pasca Tambang Emas (Kelurahan Simpang Gambir, Kecamatan Lingga Bayu & #8230;

DELVIAN
