Dr. Ir. Bejo Slamet, S.Hut, M.Si, IPM

Lecturer of Bachelor Degree of Forestry Study Program Study Program
Faculty of Forestry
Universitas Sumatera Utara

bejo@usu.ac.id

Kampus 2 USU Bekala, Simalingkar A, Pancur Batu, Deli Serdang, 20353, Sumatera Utara, Indonesia

0816637275

fhut.usu.ac.id/en/lecturer/bejo-slamet

Bejo Slamet, born in Bulu Subdistrict, Temanggung Regency, Central Java, on July 9, 1975, is the second child of two siblings. However, his older brother passed away before his birth, making him the only child of Sunarjo Diran and the late Ruwet. He is currently married to Dr. Iwan Risnasari S.Hut., M.Si., and they have been blessed with three children. His educational journey began with a Bachelor's degree (S.Hut) at IPB (graduated in 1998), followed by a Master's degree (M.Si) at IPB (graduated in 2006), a Doctorate (Dr.) at IPB (graduated in 2016), and a Professional Program - Engineer (Ir) also from IPB, graduating in 2021. Throughout his undergraduate to doctoral studies, he received educational scholarships from the Supersemar Foundation and the Postgraduate Education Scholarship (BPPS) from the Ministry of Education and Culture of Indonesia.

Since 1999, he has been working as an honorary lecturer in the Forestry Program and became a civil servant (CPNS) in 2020 at the Faculty of Forestry, Universitas Sumatera Utara. From 2017 to 2022, he served as the Head of the USU Faculty of Forestry Forest Management Department. His activities as a lecturer include carrying out the Triple Mission of Higher Education, involving education, research, and community service through various activities.

He teaches courses such as Forest Ecohydroclimatology, Watershed Management, Geographic Information Systems, and Remote Sensing for Natural Resources. In addition to teaching in the USU Undergraduate Program in Forestry, he also lectures in the USU Master Program in Forestry, the USU Master's program in Natural Resources and Environmental Management, the USU Master's Program in Water Resources Management, and the USU Doctoral Program in Water Resources at the Graduate School. He also played a role in establishing the Mangrove Center of Excellence (PUI) at the Universitas Sumatera Utara.

Furthermore, he received the Satyalancana Karya Satya XX award from the President of Indonesia in 2021. He is currently a member of several scientific and professional organizations, including the Indonesian Forest Management Community (KOMHINDO), the Indonesian Engineers Association (PII), the Indonesian Biodiversity Society (MBI), the Indonesian Society of Soil and Water Conservation (MKTI), the Indonesian Remote Sensing Experts Society (MAPIN), and the International Society for Mangrove Ecosystems (ISME).

For more detailed information, his profile can be explored on the official USU directory website or through public profiles on Google Scholar, Scopus, Web of Science, ORCID, ResearchGate, and Sinta. Personal correspondence can be made via email at bejo@usu.ac.id.

Publications

2026
Jurnal internasional bereputasi

Integrating USLE, GIS, and AHP for soil erosion assessment and mitigation prioritization in Samosir Island, Indonesia

BEJO SLAMET , CINTA AULIYA , Sunarno A. Rakino , Arfan Iqbal Harahap , Muhammad Iqbal

2026
Jurnal nasional terakreditasi

Revaluasi Spasial Objek PBB-P2 Berbasis Citra Drone untuk Memutakhirkan Basis Pajak Daerah di Desa Pulau TagorKabupaten Serdang Bedagai

ACHMAD SIDDIK THOHA , BEJO SLAMET , IVAN FLOBERT GULTOM

2026
Jurnal internasional bereputasi

UAV-based mangrove biomass estimation and carbon potential valuation in North Sumatra, Indonesia

MOHAMMAD BASYUNI , IDA LIANA TANJUNG , BEJO SLAMET , Virni Budi Arifanti , Severino Salmo III , Shigeyuki Baba , SITI

HALIMAH LAREKENG , ELHAM SUMARGA

2026
Jurnal internasional bereputasi

Mangrove Ecosystem Health Index (MEHI): a new method to evaluate mangrove ecosystem health at landscape scale using spatial metrics, canopy density, and potential disturbance based on hexagonal grid

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Jurnal internasional bereputasi

eDNA Metabarcoding Reveals Microbial Community Composition in Tropical Mangrove Forests in Makassar, Indonesia

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Jurnal internasional bereputasi

Creative Nature Tourism in Lake Toba’s National Super Priority Destination: Implementation and Key Attractiveness Factors

AGUS PURWOKO , BEJO SLAMET

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BEJO SLAMET , ELHAM SUMARGA , MOHAMMAD BASYUNI , ETTI SARTINA SIREGAR , SITI HALIMAH LAREKENG , ALFIAN MUBARAQ , A. AZNAN AZNAWI , NUR ARIYANI AGUSTINA

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Jurnal internasional bereputasi

Edible and medicinal uses of mangroves in Indonesia with a systematic review on blue food potential and health benefits

ETTI SARTINA SIREGAR , ELHAM SUMARGA , SITI HALIMAH LAREKENG , MOHAMMAD BASYUNI , BEJO SLAMET

2025
Jurnal nasional terakreditasi

Identifikasi Potensi Penggunaan Lahan Menggunakan Citra Drone untuk Perencanaan Pengelolaan Pertanian di Desa Tetehosi, Kecamatan Sirombu, Kabupaten Nias Barat

ACHMAD SIDDIK THOHA , BEJO SLAMET , WAL' ALFRIT GULO

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Jurnal internasional bereputasi

Abiotic drivers of mudflat colonization by mangroves in Indonesia: a knowledge base to support ecological restoration

MOHAMMAD BASYUNI , BEJO SLAMET , NURDIN SULISTIYONO

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Jurnal internasional bereputasi

Assessing the Environmental and Socioeconomic Impacts of Mangrove Loss in Indonesia: A Synthesis for Science-Based Policy

BEJO SLAMET , Hayssam M Ali , MOHAMMAD BASYUNI

2025
Jurnal nasional terakreditasi

Tantangan Global dalam Menghadapi Perubahan Iklim dan Masa Depan Berkelanjutan dengan Rehabilitasi mangrove Di Desa Bagan Kuala, Serdang Bedagai

MOHAMMAD BASYUNI , KIKING RITARWAN , IWAN RISNASARI , BEJO SLAMET

2025
Jurnal nasional terakreditasi

Pengabdian Internasional: Pelestarian dan Food Estate Melalui Penanaman Pohon di Ekowisata Beras Basah

WISMAROH SANNIWATI BR SARAGIH , BEJO SLAMET , DEDI KURNIAWAN , IRWAN AGUSNU PUTRA , RAZALI TANJUNG , LISNAWITA , OCTANINA SARI BR SIJABAT

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Community service and empowerment of abandoned ponds through mangrove rehabilitation activities with an ecological and hydrological approach in Percut Sei Tuan, North Sumatra

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Hydrological suitability for mangrove species in restored mangroves in abandoned pond

MOHAMMAD BASYUNI , BEJO SLAMET , Paul Macklin

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Reduction of mangrove carbon stock ecosystems due to illegal logging using a combination of unmanned aerial vehicle imagery and field surveys

Anindya Wirasatriya , MOHAMMAD BASYUNI , BEJO SLAMET , ELHAM SUMARGA , SITI HALIMAH LAREKENG , Severino Salmo III , Hayssam M Ali , Itchika Sivaipram

2025
Jurnal internasional bereputasi

Mangrove aboveground biomass estimation using UAV imagery and a constructed height model in Budeng–Perancak, Bali, Indonesia

Anindya Wirasatriya , ELHAM SUMARGA , ANJAR DIMARA SAKTI , BEJO SLAMET , MOHAMMAD BASYUNI , SITI HALIMAH LAREKENG , ALFIAN MUBARAQ , RIZKA AMELIA

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Microplastics in the digestive organs of little egret (Egretta garzetta) in Tanjung Rejo Village, Deli Serdang District, North Sumatra, Indonesia

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

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2025
Jurnal internasional

Macroinvertebrate Diversity and Abundance as Key Determinants of Waterbird Foraging Habitats in Bagan Percut Mudflats, North Sumatra

ERNI JUMILAWATY , LILIK BUDI PRASETYO , YENI ARYATI MULYANI , BEJO SLAMET , ANI MARDIASTUTI

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Meningkatkan Kapasitas Masyarakat Lokal Dalam Pembuatan Pewarna Alami dan Ecoprinting Untuk Mendukung Konservasi Mangrove, Ekowisata dan Tujuan Pembangunan Berkelanjutan

MEUTIA NAULY , BEJO SLAMET , MOHAMMAD BASYUNI

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Dynamics of carbon stocks in mangrove ecosystems in the coastal area of Serdang Bedagai Regency, North Sumatra Province, Indonesia

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Deep Learning Based Satellite Image Segmentation Analyzes for Coastal Flood Disaster

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Jurnal internasional

Strategy for Developing Horticulture Agricultural Production in Pollung District, Humbang Hasundutan Regency

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Harnessing Biomass and Blue Carbon Potential: Estimating Carbon Stocks in the Vital Wetlands of Eastern Sumatra, Indonesia

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Sustainable Food Systems and Regional Development: Analyzing Food Security in Medan City's Underprivileged Areas, Indonesia

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Analysis Of Mangrove Land Cover In The Sawo Marine Conservation Area, North Nias District

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Performance Analysis of Forest Management Unit Region III Kisaran, North Sumatra Province

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ORANG KAYA HASNANDA SYAHPUTRA , BEJO SLAMET , ADE OKTAVIA

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Strategies for Landslide Disaster Mitigation in Baktiraja’s Tourism Zones, Humbang Hasundutan Regency, Indonesia

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Carbon stock potential in rehabilitated mangrove in Lubuk Kertang Village, North Sumatra, Indonesia

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Evaluation of Plant Growth and Potential of Carbon Storage in the Restored Mangrove of an Abandoned Pond in Lubuk Kertang, North Sumatra, Indonesia. Forests 2023, 14, 158

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Aboveground biomass and carbon stock estimation using UAV photogrammetry in Indonesian mangroves and other competing land uses

SYAIFUL EDDY , NURDIN SULISTIYONO , MOHAMMAD BASYUNI , Anindya Wirasatriya , ELHAM SUMARGA , BEJO SLAMET

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Nutritional values of Avicennia marina leaves and its application as fodder for Kacang goat (Capra aegagrus)

BEJO SLAMET , NURDIN SULISTIYONO , MOHAMMAD BASYUNI

2023
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Evaluation of Plant Growth and Potential of Carbon Storage in the Restored Mangrove of an Abandoned Pond in Lubuk Kertang, North Sumatra, Indonesia

NURDIN SULISTIYONO , MOHAMMAD BASYUNI , BEJO SLAMET

2022
Jurnal internasional bereputasi

Utilization of unmanned aerial vehicle (UAV) in identifying the characteristics of the riparian ecosystem of the Percut River, North Sumatra Province

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ANALYSIS OF THE NEED FOR GREEN OPEN SPACE BASED ON OXYGEN REQUIREMENT IN MEDAN CITY

BEJO SLAMET , DELVIAN

2022
Prosiding seminar nasional

Pelatihan Adaptasi Kebiasaan Baru dalam Pengolahan Pangan Berbahan Mangrove di Desa Lubuk Kertang

MOHAMMAD BASYUNI , MUTIARA INDAH SARI , ERA YUSRAINI , BEJO SLAMET , APRI HERI ISWANTO , ERNI JUMILAWATY

2022
Jurnal internasional bereputasi

Identification of the distribution of natural tourism objects along the outer ring road of Lake Toba Aek Nauli-Merek section, North Sumatra Province, Indonesia

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2022
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Dynamic System for Silvofishery Pond Feasibility in North Sumatera, Indonesia

BEJO SLAMET , NURDIN SULISTIYONO , MOHAMMAD BASYUNI

2021
Jurnal internasional bereputasi

Analysis of vegetation cover and built-up areas in the Percut watershed landscape, North Sumatra Province using sentinel-2 imagery

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Land use directions based on the level of land conversion vulnerability in the Padang Watersheds, North Sumatera

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Analisis Sebaran Spasial Kerawanan Penyakit Demam Berdarah Dengue Tahun 2010–2019 di Kota Banda Aceh

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Fire vulnerability level model for land fire and forest management in Labuhanbatu, North Sumatera, Indonesia

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Spatial modelling of land conversion vulnerability in Padang watersheds North Sumatera province

ABDUL RAUF , BEJO SLAMET

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The existence and role of traditional cultural beliefs in conserving Sibaganding Tua sacred forest

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Polyisoprenoids composition in mulberry (Morus alba L.)

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Mangrove ecosystem in north sumatran (Indonesia) forests serves as a suitable habitat for mud crabs (scylla serrata and s. olivacea)

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2021
Jurnal internasional bereputasi

Maintaining tree biodiversity in urban communities on the university campus

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2020
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Polyprenol and dolichol content in the seed tissues of Elaeis guineensis Jacq. From commercial seeds

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2020
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Pengaruh Pemanfaatan Lahan terhadap Kualitas Air Sungai Percut dengan Metode Indeks Pencemaran (IP)

BEJO SLAMET

2020
Jurnal internasional bereputasi

Study of river water quality in various land cover of Percut Watershed at Deli Serdang Regency

BEJO SLAMET

2019
Jurnal internasional bereputasi

Land cover change analysis of Besitang watershed

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2019
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Evaluation of two-year mangrove rehabilitation using Rhizophora apiculata propagules in Lubuk Kertang Village, North Sumatra

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Species composition and plant diversity of logged-over forest in Sikundur, Gunung Leuser National Park, North Sumatra

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2019
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Land use analysis of coastal belt in the coastal area of Langkat Regency North Sumatra Province using Sentinel 2 Satellite imagery

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Leaf nutrition content and organoleptic of Jeruju (Acanthus ilicifolius L) and processed products in Lubuk Kertang Village, North Sumatera

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2019
Jurnal internasional bereputasi

Mangrove vegetation supports milkfish production in silvofishery pond

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Bioinformatics approach of predicted polyprenol reductase in Durian (Durio zibethinus Murr.)

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Introducing of a silvofishery pond on sapling and seedling density based in Lubuk Kertang Village, North Sumatera

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Assessment of one-year mangrove reforestation using Rhizophora apiculata seedlings in Lubuk Kertang village, North Sumatra

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Management of mangrove ecosystems for increasing fisheries production in Lubuk Kertang village, North Sumatra, Indonesia

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Kajian Tingkat Bahaya Erosi Pada Berbagai Tipe Penggunaan Lahan di Kecamatan Merdeka Kabupaten Karo

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Kajian tingkat bahaya erosi untuk arahan konservasi tanah pada berbagai tipe penggunaan lahan di Kecamatan Merdeka Kabupaten Karo

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2018
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Evaluation of mangrove reforestation and the impact to socioeconomic-cultural of community in Lubuk Kertang village, North Sumatra

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Cluster analysis of polyisoprenoid in oil palm (Elaeis guineensis) leaves in different land-uses to find the possible cause of yield gap from planting materials

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2018
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Analysis of Greenbelt in Sibolga for Tsunami Mitigation

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The role of urban forest to reduce rain acid in urban industrial areas

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Carbon dioxide emissions from forestry and peat land using land-use/land-cover changes in North Sumatra, Indonesia

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2018
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Developing community-based mangrove management through eco-tourism in North Sumatra, Indonesia

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2018
Jurnal internasional bereputasi

Land surface temperature distribution and development for green open space in Medan city using imagery-based satellite Landsat 8

BEJO SLAMET

2018
Jurnal internasional bereputasi

Minimum forest cover required for sustainable water flow regulation of a watershed: A case study in Jambi Province, Indonesia

BEJO SLAMET

2015
Jurnal internasional

Impact of Land Cover Changes in Tropical Lowland Rainforest Transformation

System to Soil Properties

BEJO SLAMET

2015
Tulisan ilmiah

KEBIJAKAN PEMBENTUKAN FORUM DAS DALAM PENGELOLAAN DAERAH ALIRAN SUNGAI

BEJO SLAMET

2015
Jurnal nasional terakreditasi

Stemflow variability in tropical lowland forest landscape transformation system: Case study at Jambi Province, Indonesia

BEJO SLAMET

2013
Jurnal nasional

Fungsi Hidrologi Kebun Karet (Hevea brasiliensis Muell. Arg) dalam Mereduksi Besaran Curah Hujan Bersih (Hydrological Function of Rubber Plantation (Hevea brasiliensis MuellÃƒâ€šÃ‚Â …

BEJO SLAMET

2012
Prosiding seminar nasional

Landslide Hazard Mapping to Support the Handling of Landslide Hazard in the Upstream Deli Watershed

BEJO SLAMET , RAHMAWATY , ABDUL RAUF

2026
Jurnal nasional

Fungsi Hidrologi Kebun Karet (Hevea brasiliensis Muell. Arg) dalam Mereduksi Besaran Curah Hujan Bersih (Hydrological Function of Rubber Plantation (Hevea brasiliensis MuellÂ …

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Researches

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Sustainable Silvofisery and Blue Carbon (SBC): Case study

MOHAMMAD BASYUNI , BEJO SLAMET , FAUJIAH NURHASANAH RITONGA , ETTI SARTINA SIREGAR , Severino Salmo III

2026
Penelitian Kerjasama Antar Perguruan Tinggi

Strategi Pemulihan Mangrove Melalui Model Pengelolaan Ekowisata Berkelanjutan Berbasis Kearifan Lokal Dalam Mendukung Peningkatan Perekonomian Masyarakat Pesisir Desa Nelayan Seberang

AULIA PUTRA DAULAY , BEJO SLAMET , HANNA TRESIA SILALAHI , DELVIAN , RATNA SARI

2026

Kajian Keanekaragaman Hayati dan Abrasi Laut di PLTU Indonesia Power

BEJO SLAMET , YUNUS AFIFUDDIN

2026
Penelitian Kerjasama Antar Perguruan Tinggi

Struktur Vegetasi Mangrove dan Komunitas Serangga yang Berasosiasi di Kawasan Pasar Rawa Kabupaten Langkat Sumatera Utara

ERNI JUMILAWATY , BEJO SLAMET , AMEILIA ZULIYANTI SIREGAR , ETTI SARTINA SIREGAR

2026

KAJIAN BIODIVERSITAS FLORA FAUNA DAN AQUATIK DI PLTA ASAHAN 3

BEJO SLAMET , YUNUS AFIFUDDIN

2025

Investigasi Biomassa, Karbon Stok dan Jasa Ekosistem Lainnya di Hutan Mangrove dan Konversinya

MOHAMMAD BASYUNI , BEJO SLAMET , IDA LIANA TANJUNG , FAUJIAH NURHASANAH RITONGA , Severino Salmo III

2024

Pemantapan Lingkungan: Penguatan Ketahanan Pangan dalam Menghadapi Perubahan Iklim dan Manajemen Cadangan Karbon di Hutan Mangrove Beberapa Lokasi di Indonesia

ERNI JUMILAWATY , MOHAMMAD BASYUNI , BEJO SLAMET

2024

Dampak Perubahan Penutupan Lahan, Kenaikan Permukaan Air Laut dan Penurunan Permukaan Tanah Terhadap Ekosistem Mangrove

BEJO SLAMET , NURDIN SULISTIYONO

2024

Melacak perubahan tutupan lahan ekosistem pesisir dan ekosistem Mangrove di Sumatera Utara dan Penilaian Kesesuaian Mangrove di Masa Depan dengan menggunakan citra seri waktu Sentinel-1 dan Sentinel-2, Citra Landsat 8 OLI, dan Google Earth Engine

BEJO SLAMET , NURDIN SULISTIYONO

2023

Ipteks Bagi Wilayah

PENGEMBANGAN JARINGAN KLUSTER TERINTEGRASI BANJIR ROB DI BELAWAN BERBASIS DEEP LEARNING

ADE CANDRA , BEJO SLAMET , HAYATUNNUFUS , IVAN JAYA , SAMUEL REJEKINTA GINTING , ANDIKO EKARINA PINDONTA BANGUN , WILSON

2023

Penelitian Dana Lokal Perguruan Tinggi

ANALISIS DAMPAK PERCEPATAN PENGELOLAAN DAN PENINGKATAN KLASIFIKASI KELOMPOK USAHA PERHUTANAN SOSIAL MELALUI PENDEKATAN INTEGRATED AREA DEVELOPMENT (IAD) DI KPH WILAYAH I STABAT KABUPATEN LANGKAT

BEJO SLAMET , YENI ABSAH , ODING AFFANDI

2022

Hibah HI-LINK

MOnitoring Mangrove ExteNT & Services (MOMENTS): What is controlling Tipping Points?

MOHAMMAD BASYUNI , BEJO SLAMET , NURDIN SULISTIYONO

2021

Penelitian Dana Lokal Perguruan Tinggi

Ekstraksi Dan Karakterisasi Tanin Gambir (Uncaria Gambir Roxb) Asal Pakpak Barat Sebagai Bahan Pre-Mordan Pada Tekstil

BEJO SLAMET , IWAN RISNASARI

2021

Model Spasial Indeks Kerentanan Lanskap Daerah Aliran Sungai Percut Provinsi Sumatera Utara

BEJO SLAMET , ORANG KAYA HASNANDA SYAHPUTRA

2019

Kerjasama Luar Negeri dan Publikasi Internasional

Monitoring Mangrove ExteNT & Services (MOMENTS): What is controlling Tipping Points

MOHAMMAD BASYUNI , BEJO SLAMET , NURDIN SULISTIYONO

2018

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Tipping Points

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Community Services

2026
Ipteks Bagi Masyarakat

Manggrove-Based Coastal Climate Resilience Strategies Through Remote Sensing In Hydrometeorological Disaster-Prone Areas Of Pahang And North Sumatera (USU and UMPSA Collaboration)

BEJO SLAMET , VITA CITA EMIA TARIGAN , HAYATUNNUFUS , ODING AFFANDI

2025

Transformasi Ekologis dan Ekonomi Biru Berkelanjutan melalui Pemberdayaan Mangrove dan Ketahanan Pangan di Desa Pasar Rawa, Kecamatan Gebang, Langkat

ERNI JUMILAWATY , MOHAMMAD BASYUNI , BEJO SLAMET , AMEILIA ZULIYANTI SIREGAR

2024

Pengurus Badan Kemakmuran Masjid

BEJO SLAMET , HASAN SAKTI SIREGAR

2023

PENGEMBANGAN DATA DESA PRESISI DALAM MENDUKUNG TERWUJUDNYA PEMBANGUNAN DESA BERBASIS POTENSI SUMBERDAYA ALAM DAN PERAN MASYARAKAT DI DESA RUMAH SUMBUL, KECAMATAN SIBOLANGIT, KABUPATEN DELI SERDANG

BEJO SLAMET , ROBI ARIANTA SEMBIRING

2018

Pembibitan Mangrove Genus Avicennia untuk Program Rehabilitasi dan Pakan Ternak

MOHAMMAD BASYUNI , BEJO SLAMET , NURDIN SULISTIYONO

2017

IbM Teknologi Pengayaan Tanaman Rehabilitasi Mangrove dan Lanskap Ekowisata

MOHAMMAD BASYUNI , BEJO SLAMET , NURDIN SULISTIYONO

2016

Pemanfaatan berkelanjutan sumberdaya mangrove berbasis penelitian dan potensi masyarakat lokal di pantai timur sumatera utara

MOHAMMAD BASYUNI , BEJO SLAMET , NURDIN SULISTIYONO