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*Afifuddin Dalimunthe, S.P., M.P is one of the teaching staff at the Faculty of Forestry, Universitas Sumatera Utara since 2002. Mr. Afif, as he is familiarly called, was born on November 5, 1973. He pursued his undergraduate education at the Faculty of Agriculture, Universitas Sumatera Utara. After successfully completing his undergraduate studies in 1999, he continued his education at the same campus and graduated in 2004 with a Master of Science (M.Si) degree. During his career as a lecturer, Afifuddin has conducted various research and community service activities and published them in various scientific works such as journals and proceedings.*

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## Publications

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2026

Prosiding seminar internasional

### **Application of Trichoderma sp. 1 on Rhizophora mucronata leaf litter and its effect on milkfish feed in Belawan Sicanang, North Sumatra2**

YUNASFI , BUDI UTOMO , AFIFUDDIN DALIMUNTHE , AMANATUL FADHILAH , IPANNA ENGGAR SUSETYA

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2025

Prosiding seminar internasional

### **Application of Various Manures to the Growth of Rhizophora apiculata Seedlings in Pulau Sembilan, Pangkalan Susu, North Sumatra**

YUNASFI , BUDI UTOMO , AFIFUDDIN DALIMUNTHE

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2025

Prosiding seminar internasional

### **The influence of ZnCl<sub>2</sub> activation on the activated charcoal properties made from indonesian sugar palm ( Arenga longipes) fronds**

LUTHFI HAKIM , AFIFUDDIN DALIMUNTHE , JULIANA , ULFA ZAHARA HASIBUAN , Yunida Syafriani Lubis , Jayusman

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2025

Prosiding seminar internasional

### **Seedling growth of Rhizophora stylosa regarding the use of various types of fertilizer in Dusun II Pulau Sembilan Village, Pangkalan Susu District, Langkat Regency, North Sumatra**

BUDI UTOMO , AFIFUDDIN DALIMUNTHE , YUNASFI

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2025

Prosiding seminar internasional

### **Application of fungi Aspergillus sp. on decomposition leaf litter Avicennia marina as a source of milkfish feed in Sicanang Belawan**

YUNASFI , BUDI UTOMO , AFIFUDDIN DALIMUNTHE

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2025

Prosiding seminar internasional

### **Organic fertilizer application to increase growth Rhizophora stylosa in Dusun IV, Sembilan Island Village, Pengkalan Susu District, Langkat Regency**

YUNASFI , BUDI UTOMO , AFIFUDDIN DALIMUNTHE

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2025

Jurnal nasional

### **APLIKASI BERBAGAI JENIS FUNGI UNTUK MENINGKATKAN**

# **PERTUMBUHAN BIBIT RHIZOPHORA APICULATA DI DESA PULAU SEMBILAN KECAMATAN PANGKALAN SUSU KABUPATEN LANGKAT**

YUNASFI , BUDI UTOMO , AFIFUDDIN DALIMUNTHE

2025

Prosiding seminar internasional

## **Avicennia marina leaf litter decomposition rate and its impact on milkfish growth in Sicanang Belawan Medan**

YUNASFI , BUDI UTOMO , AFIFUDDIN DALIMUNTHE

2025

Jurnal internasional bereputasi

## **Diversity of fungal species and decomposition of Rhizophora mucronata leaf litter in the Deli Belawan River Estuary, North Sumatra, Indonesia**

YUNASFI , BUDI UTOMO , AFIFUDDIN DALIMUNTHE , IPANNA ENGGAR SUSETYA , AMANATUL FADHILAH

2025

Prosiding seminar internasional

## **Growth response of Parapat mango growing in critical land catchment area of Lake Toba with input of compost briquettes and additional NPK fertiliser**

BUDI UTOMO , AFIFUDDIN DALIMUNTHE

2024

Prosiding seminar internasional

## **Diversity of Fungi that Play a Role in Decomposing Rhizophora mucronata Leaf Litter in the Lower Deli River**

YUNASFI , AFIFUDDIN DALIMUNTHE

2024

Prosiding seminar internasional

## **Identification of Fungi that Decompose Avicennia marina Leaf Litter at 21-30 ppt Salinity Level to Improve Sustainability of Mangrove Ecosystem**

BUDI UTOMO , AFIFUDDIN DALIMUNTHE , YUNASFI

2024

Prosiding seminar internasional

## **Forest composition and carbon reserves in Bukit Barisan Forest Park, Dolat Rayat Village, Karo District**

LUTHFI HAKIM , BUDI UTOMO , AFIFUDDIN DALIMUNTHE

2024

Prosiding seminar internasional

## **Decomposition rate of Rhizophora mucronata leaf litter and identification of fungi in mangrove ecosystems in Pulau Sembilan, Pangkalan Susu District, Langkat Regency**

AMANATUL FADHILAH , YUNASFI , AFIFUDDIN DALIMUNTHE , ZULHERI NOER

2024

Prosiding seminar internasional

## **Diversity of fungi species that decompose Ceriops tagal leaf litter on Pulau Sembilan, Langkat Regency**

AFIFUDDIN DALIMUNTHE , AMANATUL FADHILAH , YUNASFI , ZULHERI NOER

2024

Jurnal internasional bereputasi

## **Diversity of MPTS (Multi Purpose Tree Species) in the Forest Area with Special Purpose (KHDTK)**

BUDI UTOMO , AFIFUDDIN DALIMUNTHE , MOHAMMAD BASYUNI

2024

Jurnal nasional terakreditasi

## **RESPONSE OF RHIZOPHORA APICULATA SEEDLING GROWTH TO THE APPLICATION OF SEVERAL TYPES OF FERTILIZERS IN PULAU SEMBILAN, PANGKALAN SUSU DISTRICT, LANGKAT REGENCY**

AFIFUDDIN DALIMUNTHE , YUNASFI , IPANNA ENGGAR SUSETYA , BUDI UTOMO

2024

Prosiding seminar internasional

## **The planting distance from the beach and its effect on the growth of *Rhizophora apiculata***

YUNASFI , AFIFUDDIN DALIMUNTHE

2024

Jurnal internasional bereputasi

## **Fungal diversity associated with the decomposition of *Avicennia marina* leaf litter at various salinity levels**

BUDI UTOMO , ANITA ZAITUNAH , IPANNA ENGGAR SUSETYA , SAMSURI , AFIFUDDIN DALIMUNTHE , YUNASFI

2024

Jurnal internasional bereputasi

## **The usage of vaious fungi species has allowed the *Avicennia marina* to develop more swiftly in Belawan and Pulau Sembilan**

AMANATUL FADHILAH , YUNASFI , BUDI UTOMO , AFIFUDDIN DALIMUNTHE , ANITA ZAITUNAH , IPANNA ENGGAR SUSETYA

2023

Jurnal nasional terakreditasi

## **Species of fungi involved in the decomposition of *Rhizophora apiculata* leaf litter on Pulau Sembilan**

ZULHERI NOER , AMANATUL FADHILAH , AFIFUDDIN DALIMUNTHE , BUDI UTOMO , YUNASFI

2023

Prosiding seminar internasional

## **The above-ground biomass model of mangrove forest in Panai Hilir, Indonesia**

SAMSURI , YUNASFI , ANITA ZAITUNAH , ALFAN GUNAWAN AHMAD , AFIFUDDIN DALIMUNTHE

2023

Prosiding seminar internasional

## **Species diversity of fungi decomposer of *Rhizophora stylosa* leaf litter in mangrove ecosystem Pulau Sembilan Langkat Regency**

ZULHERI NOER , AMANATUL FADHILAH , AFIFUDDIN DALIMUNTHE , YUNASFI

2023

Prosiding seminar internasional

## **The above-ground biomass model of mangrove forest in Panai Hilir, Indonesia**

ALFAN GUNAWAN AHMAD , YUNASFI , AFIFUDDIN DALIMUNTHE , YOHANES BUDI SULISTIOADI , ANITA ZAITUNAH , SAMSURI

2023

Jurnal nasional terakreditasi

## **The Fungal Development During The Leaf Litter Process Decomposition of *Avicennia marina***

YUNASFI , AFIFUDDIN DALIMUNTHE

2022

Prosiding seminar internasional

## **Analysis of methyl compounds variation in the crude *Pongamia pinnata* oil from Banten, West Java and North Java populations**

LUTHFI HAKIM , AFIFUDDIN DALIMUNTHE

2022

Prosiding seminar internasional

## **Season, basal media and plant growth regulators effect in wood plant in vitro propagation: a comprehensive review**

LUTHFI HAKIM , AFIFUDDIN DALIMUNTHE

2022

Prosiding seminar internasional

## **The effect of distance planting of red mangrove (*Rhizophora apiculata*) on Pulau Sembilan, PangkalanSusu District, Langkat Regency**

YUNASFI , AFIFUDDIN DALIMUNTHE

2022  
Prosiding seminar internasional

**The use of chicken manure, lowland peat and highland peat briquettes on the growth of *Macadamia integrifolia* in an arid area of Pematang Tambun Village, Simalungun Regency**

BUDI UTOMO , AFIFUDDIN DALIMUNTHE

2022  
Prosiding seminar internasional

**The use of oil palm fruits waste bricks and manure in relationship as groundwater resistance materials to increase plant growth in critical land**

BUDI UTOMO , AFIFUDDIN DALIMUNTHE

2022  
Prosiding seminar internasional

***Rhizophora Apiculata* on Copper and Lead Heavy Metal Substances and Their Effect on Water Quality in Belawan**

RUSDI LEIDONALD , YUNASFI , AFIFUDDIN DALIMUNTHE

2021  
Jurnal internasional

**Utilization of low plants peat bricks for macadamia (*Macadamia integrifolia*) planting**

BUDI UTOMO , AFIFUDDIN DALIMUNTHE

2021  
Prosiding seminar internasional

***Rhizophora stylosa* as a protector against overwhelming copper (Cu) and lead (Pb) metal substances and how they affect on Belawan's water quality**

YUNASFI , AFIFUDDIN DALIMUNTHE , RUSDI LEIDONALD

## Researches

2025  
Penelitian Dana Lokal Perguruan Tinggi

**UPAYA PENINGKATAN KEBERHASILAN PROGRAM REHABILITASI DTA DANAU TOBA DENGAN MEMPELAJARI DAN MEMANFAATKAN SPECIES-SPECIES POHON ADAPTIF**

LILY FAUZIA , BUDI UTOMO , AFIFUDDIN DALIMUNTHE , YUNASFI

2024  
Penelitian Dana Lokal Perguruan Tinggi

**PEMANFAATAN FUNGI UNTUK DEKOMPOSISI SERASAH DAUN MANGROVE *Rhizophora mucronata* SEBAGAI SUMBER PAKAN ORGANISME DI EKOSITEM MANGROVE TAHUN KE-2**

ZULHERI NOER , AMANATUL FADHILAH , AFIFUDDIN DALIMUNTHE , YUNASFI

2023  
Penelitian Dana Lokal Perguruan Tinggi

**PEMANFAATAN FUNGI UNTUK DEKOMPOSISI SERASAH DAUN MANGROVE *Rhizophora mucronata* SEBAGAI SUMBER PAKAN ORGANISME DI EKOSITEM MANGROVE**

AMANATUL FADHILAH , AFIFUDDIN DALIMUNTHE , YUNASFI

2021  
Penelitian Dana Lokal Perguruan Tinggi

**LOGAM BERAT TEMBAGA (Cu) DAN TIMBAL (Pb) PADA MANGROVE *Rhizophora stylosa* DAN *Rhizophora apiculata* DAN PENGARUHNYA TERHADAP KUALITAS AIR DI BELAWAN**

AFIFUDDIN DALIMUNTHE , YUNASFI , RUSDI LEIDONALD

# Community Services

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2025

## **INISIASI PUSAT LOKASI USAHA KECIL DAN MENENGAH MASYARAKAT DESA MENGGUNAKAN KIOS MODERN DI DESA TUNTUNGAN II, KECAMATAN PANCUR BATU, KABUPATEN DELI SERDANG**

MARHENI , LILY FAUZIA , AFIFUDDIN DALIMUNTHE

2024

## **IPTEK Pengamanan Kawasan Mesjid Desa Menggunakan Perangkat Lunak CCTV Dan Penerangan Berbasis Listrik Tenaga Surya**

LILY FAUZIA , AFIFUDDIN DALIMUNTHE

2023

## **PENGEMBANGAN DESTINASI WISATA DALAM UPAYA MENINGKATKAN PEREKONOMIAN MASYARAKAT DESA PARDOMUAN AJIBATA KECAMATAN AJIBATA KABUPATEN TOBA**

BUDI UTOMO , AFIFUDDIN DALIMUNTHE

2023

## **IPTEK PENERANGAN JALAN UMUM UNTUK MENCIPTAKAN KEAMANAN BAGI WARGA DESA TUNTUNGAN II KECAMATAN PANCUR BATU**

BUDI UTOMO , AFIFUDDIN DALIMUNTHE

2023

## **IPTEK PEMBUATAN MESIN PEMIPIL JAGUNG SEBAGAI UPAYA MENINGKATKAN PRODUKTIVITAS PETANI DESA PANSUR NAPITU KECAMATAN SIATAS BARITA KABUPATEN TAPANULI UTARA**

BUDI UTOMO , AFIFUDDIN DALIMUNTHE

2022

Ipteks Bagi Masyarakat

## **Iptek Pembuatan Mesin Pemipil Jagung Sebagai Upaya Meningkatkan Produktivitas Petani Desa Pansur Napitu Kecamatan Siatas Barita Kabupaten Tapanuli Utara**

BUDI UTOMO , AFIFUDDIN DALIMUNTHE

2014

Penelitian Hibah Bersaing

## **Penggunaan Berbagai Media Penahan Air dalam Rangka Meningkatkan Keberhasilan Tumbu**

2014

Ipteks Bagi Masyarakat

## **Model Penerapan Ipteks Pembuatan Kompos Untuk Mengatasi Kerusakan Lingkungan Aki**

2013

Ipteks Bagi Masyarakat

## **Penerapan Iptek Pembuatan Kompos untuk Mengatasi Kerusakan Lingkungan Akibat Pem**

2013

Penelitian Hibah Bersaing

## **PENINGKATAN KETAHANAN TANAMAN KARET Hevea brasiliensis MUELL. Arg) TERHADAP CEKA**

2013

Penelitian Hibah Bersaing

## **Penggunaan Berbagai Media Penahan Air dalam Rangka Meningkatkan Keberhasilan Tumbu**

