Prof. Ir. T. Sabrina, M.Agr.Sc., Ph.D

Lecturer of Undergraduate Program in Agrotechnology Study Program
Faculty of Agriculture
Universitas Sumatera Utara

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USU Faculty of Agriculture and Postgraduate School

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Prof. Ir. T. Sabrina, M.Agr.Sc., Ph.D., born in Medan on June 20, 1964, is an Agrotechnology lecturer at the Universitas Sumatera Utara who is an expert in soil science.

Education Profile:

- Bachelor's degree from the Universitas Sumatera Utara (USU).

- Master's degree in Land Resource Management from Universiti Putra Malaysia (UPM)

- Ph.D. degree in Land Resource Management from Universiti Putra Malaysia (UPM)

As a professor, Prof. Ir. T. Sabrina has made valuable contributions to agrotechnology development, especially in understanding and managing soil science. Her dedication to education, research, and community service reflects a commitment to improving agricultural sustainability at the Universitas Sumatera Utara.

Publications

2026
Book chapter internasional

Advances in Agronomy

T SABRINA , DIAN FIANTIS , FRISA IRAWAN GINTING , Budiman Minasny

2026
Jurnal internasional bereputasi

Effect of Indigenous Phosphate-Solubilizing Bacteria on Phosphorus Availability and Shallot Productivity in Andisol

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2026
Book chapter internasional

Advances in Agronomy

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2026
Jurnal internasional bereputasi

Impacts of agrivoltaic systems on soil properties and pedogenesis: A review

DIAN FIANTIS , AFFAN CHAHYAHUSNA , DYAH RETNO PANUJU , T SABRINA , Rudiyanto , Budiman Minasny , FRISA IRAWAN GINTING , BAMBANG HENDRO TRISASONGKO

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Prosiding seminar internasional

The use of biofertilizers to increase zinc content in rice plants

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2026
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The potential of tidal land and the availability of zinc nutrients to support increasing the productivity of rice plants

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2025
Jurnal internasional bereputasi

Soil Tillage and Application of Organic Materials on Oil Palm Plant Disc and Their Effects on Soil Properties

T SABRINA

2025
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Soil Tillage and Application of Organic Materials on Oil Palm Plant Disc and Their Effects on Soil Properties

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Jurnal internasional bereputasi

Using the Soil-Adjustment Vegetation Index from Landsat-8 Imagery for Estimating the Nutrient Content of Oil Palm Leaves for Optimized Fertilizer Application

T SABRINA , ZULKIFLI , DHIMAS WIRATMOKO , Budiman Minasny

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Earthworm Population and Diversity in Smallholder Oil Palm Plantations under Conventional and Semi-Organic Systems in Labuhan Batu Regency

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Jurnal internasional bereputasi

Optimization of Leaf Nutrient Mapping in Oil Palm A Geospatial Comparison for Site-Specific Management

ZULKIFLI , DHIMAS WIRATMOKO , T SABRINA

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Jurnal internasional bereputasi

Optimization of Leaf Nutrient Mapping in Oil Palm A Geospatial Comparison for Site-Specific Managemen

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2025
Book chapter internasional

The contribution of oil palm plantations to prosperity and a circular economy in North Sumatera

T SABRINA , HOTNIDA SINAGA

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Jurnal internasional bereputasi

Cultural Tourism as a Catalyst for Rural Development: A Spatial-Econometric Study of a Tourism Village in North Sumatra, Indonesia

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2025
Artikel ilmiah

Earthworm Population and Diversity in Smallholder Oil Palm Plantations under Conventional and Semi-Organic Systems in Labuhan Batu Regency

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Prosiding seminar internasional

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Natural Resources, Environment, and Food and Energy Security Updates in North Sumatra

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The contribution of oil palm plantations to prosperity and a circular economy in North Sumatra

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Potential of phosphate solubilizing microbes from Andisol in qualitatively dissolving P at various pH

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Potential of phosphate solubilizing microbes from Andisol in qualitatively dissolving P at various pH

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2024
Jurnal internasional bereputasi

Functional diversity of bacteria in various saline soil plant vegetations around Sialang Buah Coast, North Sumatra, Indonesia

MARIANI BR SEMBIRING , T SABRINA , LUTHFI AZIZ MAHMUD SIREGAR

2024
Jurnal nasional terakreditasi

Microbial phosphate solubilization mechanisms in P solubilizing in andisol

LUTHFI AZIZ MAHMUD SIREGAR , T SABRINA , ABDUL RAUF , AGUSTINA E BR MARPAUNG

2024
Jurnal internasional bereputasi

Study of Aromatic Plants on Cadmium Exposure Through Anatomical Structure, Shoot Root Ratio, Essential Oil and Heavy Metals

T SABRINA , YUSTINA SRI SULASTRI , MUKHLIS , REVANDY I M DAMANIK

2024

Jurnal nasional

MENGUBAH SAMPAH MENJADI PELUANG: MENDAUR ULANG PLASTIK DAN MENGOLAH SAMPAH RUMAH TANGGA

T SABRINA

2024
Jurnal internasional bereputasi

using machine learning in detecting ganoderma disease in oil palm plants

MARDIANA WAHYUNI , MUKHLIS , T SABRINA

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Jurnal internasional bereputasi

EXAMINING THE USE OF SUBSOIL AS MEDIA FOR OIL PALM SEEDLINGS IN THE MAIN NURSERY

T SABRINA , MUKHLIS

2023
Jurnal nasional terakreditasi

Utilization of Actinomycetes to increase phosphate availability at different soil moisture conditions in Andisols Namanteran, North Sumatera

T SABRINA , ASMARLAILI SAHAR , M REZA AL FIKRI

2023
Jurnal internasional bereputasi

Isolation and identification of phosphate solubilizing microbes in the rhizosphere of maize by sound exposure

ASRITANARNI MUNAR , MARIANI BR SEMBIRING , PROF DR IR AHMAD RAFIQI TANTAWI. MS , T SABRINA

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Jurnal internasional

Isolation and identification of phosphate solubilizing microbes in the rhizosphere of maize by sound exposure

PROF DR IR AHMAD RAFIQI TANTAWI. MS , MARIANI BR SEMBIRING , T SABRINA , ASRITANARNI MUNAR

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The effect of dispensing biochar of palm oil empty bunches and palm oil fronds on the population of soil organisms

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Application of Vermicompost, Kasgot (BSF Compost), and Vermigot for growth and production of Pakchoy (Brassica rapa L.) in Ultisol

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MUKHLIS , T SABRINA

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Isolation and molecular characterization of potassium-solubilizing bacteria from limestone mountain of Bahorok, Langkat District, Indonesia

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NUR ULINA WARNISYAH SEBAYANG , T SABRINA

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The role of rhizosphere microbes as phosphate solubilizing bio fertilizers in shallot: a review

ABDUL RAUF , T SABRINA

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Application of Vermicompost, Kasgot (BSF Compost), and Vermigot for growth and production of Pakchoy (Brassica rapa L.) in Ultisol

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Analysis of Vegetation Index of Oil Palm Plants infected with Ganoderma Disease

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Chemical Characteristics and Plant Growth Regulators of Organic Waste as Liquid Organic Fertilizer

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2022
Prosiding seminar internasional

Analysis the nutrient of bio-vermicompost with different techniques applications of some microbes and earthworms

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The nutrient content of N, P, K in Andisols and Arabica coffee leaves in Bener Meriah Regency, Indonesia

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Diversity of potassium solving microbes on andisol soil affected by the eruption of Mount Sinabung, North Sumatra, Indonesia

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Diversity of non-symbiotic nitrogen-fixing bacteria and their potential n andisols affected by the eruption of Mount Sinabung, North Sumatra, Indonesia

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The Impact of Compost Dose and SP36 Fertilizer Application on Soil Chemical Properties and Growth of Corn Plants (Zea mays L.) in Ultisol Soils

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PENGARUH PENGGUNAAN BIOCHAR BIOMASSA KELAPA SAWIT TERHADAP AKTIVITAS MIKROORGANISME PADA TANAH ULTISOL

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Macrofauna diversity in andisol soil after eight years affected by the eruption of Mount Sinabung, North Sumatra, Indonesia

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The role of dolomite and vermicompost in nutrient uptake and production of sweet potato (Ipomoea batatas L) on acid soil

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Potential test of non-symbiotic nitrogen-fixing bacteria in increasing nitrogen in Andisol soil

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Effect of giving triple super phosphate and dolomite fertilizer on mushroom media (baglog) on production of white oyster mushroom (Pleurotus ostreatus)

T SABRINA , BINTANG

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Effect of giving triple super phosphate and dolomite fertilizer on mushroom media (baglog) on production of white oyster mushroom (Pleurotus ostreatus)

BINTANG , T SABRINA

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Effect of giving triple super phosphate and dolomite fertilizer on mushroom media (baglog) on production of white oyster mushroom (Pleurotus ostreatus)

BINTANG , T SABRINA

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Potential of syncephalastrum racemosum and rhizopus arrhizus isolated from oil palm trunks produce chitosans that inhibit the growth of ganoderma boninense

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Effect of soil conditioner enriched with biofertilizers to improve soil fertility and maize (Zea mays L.) growth on andisols Sinabung area

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Soil macrofauna diversity in andisol after eight years of Mount Sinabung eruption in Sumatra, Indonesia

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Soil macrofauna diversity in andisol after eight years of mount sinabung eruption in Sumatra, Indonesia

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History and interpretation of early soil and organic matter investigations in Deli, Sumatra, Indonesia

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Earthworms as a vector of aspergillus niger dispersal to enhance the decomposition of oil palm trunks

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Precocious 19th century soil carbon science

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Soil Macrofauna as Bioindicator on Aek Loba Palm Oil Plantation Land

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A resistance test of oil palm varieties (elaeis guineensis jacq.) In the saline soil with an adduction of humic acid

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Peran aplikasi pembenah tanah terhadap sifat kimia tanah pada tanaman bawang merah

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Jurnal nasional terakreditasi

Growth and production response of mung bean (Vigna radiata L) by application of mycorriza and Penicillium sp in paddy lands

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Precocious 19th century soil carbon science

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Effect of sound treatment on phosphate solubilizing microbial activity

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Exploration and effectiveness test of the potassium solvent bacteria originating from limestone mountain of Bahorok Langkat

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Prosiding seminar internasional

P status of Andisol and Its correlation with P content of Arabica coffee leaves in Bener Meriah District

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Jurnal internasional bereputasi

Phosphate solubilizing microbes and coffee skin compost to increase robusta coffee plant growth in andisol of mount sinabung area

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Prosiding seminar internasional

Soil fauna diversity on the area with several treatments on the oil palm trunk

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Microbe population in biofertilizer with vermicompost as a carrier during the process and storage

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Isolation, Purification and Potential Test of Actinomycetes in Increasing Phosphate Availability

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Jurnal nasional

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Jurnal nasional

Uji Potensi Beberapa Jenis Jamur Mikoriza Vesikular Arbuskular (MVA) terhadap Pertumbuhan Tanaman Jagung (Zea mays L.) di Tanah Inseptisol: The Potential Test of VesicularÃ‚Â …

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2019
Jurnal nasional

Relation between C, N, C/N and K Soil and Production of Shallots in Lake Toba Catchment Area

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2019
Tulisan ilmiah

Hubungan Sifat Kimia Tanah (C, N, C/N dan K) dan Produksi Bawang Merah (Alliumascalonicum L.) di Daerah Tangkapan Air Danau Toba

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Jurnal internasional

Prospects for Sugar palm (Arenga pinnata MERR) Development for Food and Energy Security

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Prosiding seminar internasional

Utilization of Oil Palm Empty Fruit Bunch (EFB) as Spodosol Soil Ameliorant for Increasing Oil Palm Root Growth

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Jurnal nasional

Uji Potensi Beberapa Jenis Jamur Mikoriza Vesikular Arbuskular (MVA) terhadap Pertumbuhan Tanaman Jagung (Zea mays L.) di Tanah Inseptisol

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Jurnal nasional terakreditasi

PENGARUH METODE KONSERVASI PADA TANAMAN KELAPA SAWIT (Elaeis gueneensis Jacq) TERHADAP STATUS UNSUR HARA N, P, K DAN C-ORGANIK TANAH

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2019
Jurnal nasional

The evaluation of soil chemistry and soil physic on understudied of camphor trees (Dryobalanops aromatica Colebr)

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Prosiding seminar internasional

The growth and yield of sweet corn (Zea mays saccharata Sturt.) with anorganic and organo-bio fertilizer

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The evaluation of soil chemistry and soil physic on understudied of camphor trees (Dryobalanops aromatica Colebr)

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The influence of the composition of biodiversal fertilizers plant vegetative soybean plant (Glycine max (L.) Merrill) in inceptisol

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The yield paddy of red rice and black rice on jajar legowo planting system with

application of several nitrogen sources

T SABRINA

2018
Jurnal internasional bereputasi

POTENTIAL OF SEVERAL BIOMASS AS BIOCHAR FOR HEAVY METAL ADSORBENT

T SABRINA , ABDUL RAUF

2018
Prosiding seminar internasional

Biochar application for the improving soil fertility and paddy production on two systems of planting

T SABRINA

2018
Prosiding seminar internasional

Population dynamics of Azotobacter sp., Azospirillum sp., Bacillus subtilis, Talaromyces pinophilus, Trichoderma asperellum, and Syncephalastrum racemosum in the medium withÃ‚Â …

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2018
Jurnal internasional

Potential of Several Biomass as Biochar for Heavy Metal Adsorbent

T SABRINA

2018
Prosiding seminar internasional

Population dynamics of Azotobacter sp., Azospirillum sp., Bacillus subtilis, Talaromyces pinophilus, Trichoderma asperellum, and Syncephalastrum racemosum in the medium withÃ‚Â …

T SABRINA

Researches

2023
Penelitian Unggulan Perguruan Tinggi

Potensi limbah pabrik teh sebagai pengganti topsoil untuk media pertumbuhan bibit sawit

MARIANI BR SEMBIRING , T SABRINA

2022
Penelitian Kompetensi

PENGUKURAN POTENSI PUPUK ORGANIK YANG DIPERKAYA MIKROBA UNGGUL PELARUT P, PELARUT KALIUM, PENAMBAT N NON SIMBIOTIK UNTUK MENINGKATKAN KUALITAS TANAH DAN PRODUKSI TANAMAN

BENNY HIDAYAT , MARIANI BR SEMBIRING , T SABRINA

2021
Ipteks

PERTUMBUHAN BIBIT ASAM GELUGUR (Garcinia atroviridis Griff ex T. Anders) PADA BERBAGAI MEDIA TANAM DAN APLIKASI EKSTRAK DAUN KETAPANG (Terminalia catappa)

MARIANI BR SEMBIRING , T SABRINA , T IRMANSYAH

2021
Penelitian Dosen Pemula

Kajian Kualitas Pupuk Hayati Bio-Vermigot (Vermikompos dan Kasgot)

NINI RAHMAWATI , NUR ULINA WARNISYAH SEBAYANG , T SABRINA

2021
Penelitian Unggulan Perguruan Tinggi

Pengukuran potensi mikroba pelarut fosfat yang bersumber dari Andisol terdampak Erupsi Gunung Sinabung sebagai pupuk hayati

MARIANI BR SEMBIRING , T SABRINA

2020
Penelitian Kompetensi

Eksplorasi Mikroba Penambat Nitrogen dan penghasil hormone tumbuh yang bersumber dari Andisol terdampak Erupsi Gunung Sinabung.

MARIANI BR SEMBIRING , T SABRINA

2020
Penelitian Dana Lokal Perguruan Tinggi

Uji kualitas biochar Hasil Metode Klin dan Retort pada Beberapa Biomassa

BENNY HIDAYAT , MARIANI BR SEMBIRING , T SABRINA , BINTANG

2020
Penelitian Unggulan Perguruan Tinggi

Pengukuran potensi mikroba pelarut fosfat yang bersumber dari Andisol terdampak Erupsi Gunung Sinabung sebagai pupuk hayati

MARIANI BR SEMBIRING , T SABRINA

2020
Penelitian Kompetensi

Eksplorasi Mikroba Penambat Nitrogen dan penghasil hormone tumbuh yang bersumber dari Andisol terdampak Erupsi Gunung Sinabung.

MARIANI BR SEMBIRING , T SABRINA

2019
Penelitian Kompetensi

KAJIAN INTERAKSI MIKROBA PELARUT FOSFAT DAN KULIT KOPI UNTUK MENINGKATKAN PERTUMBUHAN TANAMAN KOPI (Coffees sp) PADA ANDISOL TERDAMPAK ERUPSI GUNUNG SINABUNG

MARIANI BR SEMBIRING , T SABRINA , MUKHLIS

2018
Penelitian Dana Lokal Perguruan Tinggi

PEMBENAH TANAH YANG DI PERKAYA AGEN HAYATI UNTUK MENINGKATKAN KUALITAS TANAH DAN PERTUMBUHAN TANAMAN JAGUNG (Zea mays) PADA ANDISOL TERDAMPAK ERUPSI GUNUNG SINABUNG

MARIANI BR SEMBIRING , T SABRINA , MUKHLIS

Community Services

2024

Edukasi Penerapan Sistem Sertifikasi Halal Pada Usaha Mikro Kecil dan Menengah (UMKM) Menuju Usaha Yang Berkelanjutan dan Kompetitif

T SABRINA

2023
Ipteks

Literasi Halal Terhadap Islamic Branding dan Islamic Advertising Dalam Minat Konsumsi Produk Halal di Masyarakat

T SABRINA , ERI YUSNI

2022
Ipteks Bagi Masyarakat

PEMBERDAYAAN IPTEK DAN PEMANFAATAN JAMUR Synchepalastrum racemosum ASAL ISOLAT BATANG SAWIT SEBAGAI CHITOSANES UNTUK MENINGKATKAN TANAMAN BUAH PADA DESA SEI. KOPAS KISARAN

T SABRINA , RINI HARDIYANTI , HARRY AGUSNAR

2021

Iptek budidaya nipah (Nypa frutican wurmb) di Desa Pulau Sembilan Kecamatan Pangkalan Susu

T SABRINA , ORANG KAYA HASNANDA SYAHPUTRA , T IRMANSYAH

2021
Ipteks

Iptek Budidaya Nipah .(Nypa fruticans wurmb) di Desa Pulau Sembilan Kecamatan Pangkalan Susu Kabupaten Langkat Propinsi Sumatera Utara

T SABRINA , T IRMANSYAH

2021
Ipteks

Pelatihan Pembuatan Biovermi untuk Menambah Penjualan Pupuk Koperasi Berkah Abadi Jaya di Desa Lubuk Cuik Kecamatan Lima Puluh Serta Mewujudkan Pertanian Cabai Organik

MARIANI BR SEMBIRING , T SABRINA , T IRMANSYAH

2019
Ipteks Bagi Masyarakat

PENINGKATAN DAYA DUKUNG LAHAN JAGUNG MELALUI APLIKASI TEKNOLOGI TERPADU

LUTHFI AZIZ MAHMUD SIREGAR , MARIANI BR SEMBIRING , LISA MAWARNI , T SABRINA

2019
Ipteks Bagi Masyarakat

IPTEK PENGEMBANGAN DAN PEMASARAN KOMPOS RHIZOCULANT PRODUK UNIVERSITAS SUMATERA UTARA SEBAGAI MEDIA TANAM JAMBU AIR MADU DI KECAMATAN STABAT

BENNY HIDAYAT , MARIANI BR SEMBIRING , T SABRINA , MUKHLIS

2018
Ipteks Bagi Masyarakat

IPTEK PUPUK HAYATI RHIZOCULANT PRODUKSI UNIVERSITAS SUMATERA UTARA PADA TANAMAN JAMBU AIR MADU DI KECAMATAN SETABAT KABUPATEN LANGKAT

MARIANI BR SEMBIRING , T SABRINA , MUKHLIS

2013

DEMPLOT TEKNIK BUDIDAYA MENTIMUN DAN APLIKASI PUPUK ORGANIK PENINGKATAN KESUBURAN TANAH

LUTHFI AZIZ MAHMUD SIREGAR , BENNY HIDAYAT , LISA MAWARNI , T SABRINA

Intellectual Property Rights

2025
Hak cipta nasional

Sistem Informasi Pemupukan

T SABRINA , ZULKIFLI , RADEN IBNU ROSYADI , DHIMAS WIRATMOKO , Budiman Minasny , RETNADI HERU JATMIKO

2025
Paten nasional

Sistem Informasi Pemupukan

Budiman Minasny , RETNADI HERU JATMIKO , T SABRINA , RADEN IBNU ROSYADI , DHIMAS WIRATMOKO

2023
Paten nasional

penelitian dan pengabdian

T SABRINA

2023
Paten nasional

Aplikasi Support Vector Machine Pada Deteksi Penyakit Busuk Pangkal

Batang Ganoderma Tanaman Kelapa Sawit

T SABRINA , MUKHLIS

2021
Paten nasional

TEKNOLOGI UNTUK MENINGKATKAN KESUBURAN TANAH ANDISOL DENGAN MEMANFAATKAN BAKTERI DAN JAMUR PELARUT FOSFAT.

T SABRINA , MARIANI BR SEMBIRING

2021
Paten nasional

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T SABRINA , ASMARLAILI SAHAR

2021
Paten nasional

Burkholderia cepacia SEBAGAI PUPUK HAYATI PELARUT FOSFAT SPESIFIK LINGKUNGAN PADA TANAH ANDISOL

MARIANI BR SEMBIRING , T SABRINA

2020
Paten nasional

proses perolehan actinomycetes terbaik yang mampu melarutkan fosfat sebagai pupuk hayati untuk meningkatkan kualitas tanah andisol

T SABRINA

2015
Hasil penelitian/pemikiran yang tidak dipublikasikan

Rekayasa Horizon Spodik Tanah Spodosol Sub Group Typic Placorthod pada Budidaya Kelapa Sawit (Elaeis guineensis Jacq.) di Kabupaten Barito Timur Propinsi...

T SABRINA

2013
Hasil penelitian/pemikiran yang tidak dipublikasikan

Respon Sifat Kimia, Bio-Kimia Tanah Sawah, Serapan Hara dan Produksi Tanaman Padi (Oryza Sativa, L) terhadap Pemberian Jerami pada Sistem Tanam Budidaya Lokal dan PengelolaanÃ‚Â …

T SABRINA

2003
Hasil penelitian/pemikiran yang tidak dipublikasikan

Klorofil Daun Angsana dan Mahoni Sebagai Bioindikator Pencemaran Sulfur Dioksida dan Nitrogen Dioksida di Kota Medan

T SABRINA