Prof. Dr. Ir. Abdul Rauf, MP

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Prof. Dr. Ir. Abdul Rauf, M.P., born in Binjai on September 17, 1959, is an Agrotechnology lecturer at the Universitas Sumatera Utara specializing in Soil and Water Conservation and Watershed Management. He completed his final education at the Doctoral Program in Soil Science at IPB in 2004.

As a professor, Prof. Dr. Ir. Abdul Rauf has contributed significantly to developing agrotechnology science, especially in soil and water conservation and watershed management. His dedication to education, research, and application of science reflects a commitment to agricultural sustainability and environmental conservation at the Universitas Sumatera Utara.

Publications

2026
Jurnal nasional terakreditasi
Evaluation of Peat Nutrient Content in Coconut Plantations: Palm oil (Elaeis gueneensis Jacq.) In Paham Labuhanbatu
ABDUL RAUF

2025
Jurnal internasional bereputasi
Adoption of Good Agricultural Practices (GAP) among Arabica Coffe Farmers in Simalungun, Indonesia
FARID AULIA , R. HAMDANI HARAHAP , ABDUL RAUF , RAHMAWATY , ISFENTI SADALIA , ABDULLAH AKHYAR NASUTION

2025
Prosiding seminar internasional
System Research and Optimization of Coffee-Based Agricultural Land as a Sustainable Forest Management Alternative
BUDIYONO , ABDUL RAUF

2024
Jurnal nasional terakreditasi
Evaluation of Land Suitability For Durian (Durio Zibethinus) Plants In Parmaksian District, Toba Regency
FITRA SYAWAL HARAHAP , ABDUL RAUF , SIMON H SIDABUKKE

2024
Jurnal internasional bereputasi
System study and optimization of coffee-based agricultural land as a sustainable forest management alternative
BUDIYONO , ABDUL RAUF

2024
Jurnal internasional bereputasi
PHYSIOLOGICAL CHARACTERISTICS OF THE RED RICE WITH APPLICATION OF ASCORBIC ACID UNDER SALINITY STRESS CONDITIONS
ABDUL RAUF

2024
Jurnal internasional bereputasi

The effect of planting distance engineering treatment on the morphophysiology and yield of soybean varieties integrated with oil palm

ABDUL RAUF

2024
Jurnal internasional bereputasi

Belawan Harbour Environmental Monitoring Supports Welfare of Fisherman

ABDUL RAUF

2024
Jurnal internasional bereputasi

PHYSIOLOGICAL CHARACTERISTICS OF THE RED RICE WITH APPLICATION OF ASCORBIC ACID UNDER SALINITY STRESS CONDITIONS

ABDUL RAUF , WAN ARFIANI BARUS

2024
Jurnal internasional bereputasi

PHYSIOLOGICAL CHARACTERISTICS OF THE RED RICE WITH APPLICATION OF ASCORBIC ACID UNDER SALINITY STRESS CONDITIONS

ANGGRIA LESTAMI , ABDUL RAUF , WAN ARFIANI BARUS , ASRITANARNI MUNAR

2024
Jurnal nasional

PENYULUHAN TENTANG PENTINGNYA STUDI EVALUASI LAHAN BAGI MASYARAKAT DI KECAMATAN BATANG TORU

ABDUL RAUF , T IRMANSYAH , RAHMAWATY

2024
Jurnal internasional bereputasi

Reformulation of Persimmon Value-Added Model: Product Downstream Development Strategy for Farmers in East Java, Indonesia

RAHMAWATY , ABDUL RAUF

2024
Monograf

EFEKTIVITAS METODE PEMUPUKAN PADA PERTUMBUHAN DUA VARIETAS BIBIT KELAPA SAWIT (Elaeis guineensis Jacq.) DI PEMBIBITAN UTAMA (Main Nursery)

ERWIN JUNAIDI LUBIS , ABDUL RAUF , SARIFUDDIN

2023
Jurnal internasional bereputasi

Effectiveness of Fertilization Techniques on Growth Two Varieties of Palm Oil Seeds (Elaeis guineensis Jacq.) in Main Nursery

ABDUL RAUF , SARIFUDDIN

2023
Jurnal nasional terakreditasi

Study of N, P, K Nutrient Uptake In Paddy Plant With Total Soil Microbes In Sei Nahodaris Village, Panai Tengah District, Labuhanbatu Regency

ABDUL RAUF , FITRA SYAWAL HARAHAP

2023
Buku referensi

Padi Beras Hitam (Black Rice)

DAFNI MAWAR TARIGAN , WAN ARFIANI BARUS , ABDUL RAUF , R. SABRINA

2023
Jurnal internasional

Response of four oil palm varieties to low frond desiccation in the main nursery with water stress conditions on peat

ABDUL RAUF

2023
Jurnal nasional

Penghijauan Bataran Sungai Bilah Di Desa Tebing Lingga Hara Kecamatan

Bilah Hulu Kabupaten Labuhanbatu

FITRA SYAWAL HARAHAP , ABDUL RAUF , SARIFUDDIN , ABU YAZID

2023
Jurnal internasional bereputasi

Mangrove cover change (2005-2019) in the Northern of Medan City, North Sumatra, Indonesia

ABDUL RAUF , RAHMAWATY

2023
Jurnal nasional terakreditasi

Persiapan Olah Tanah di Lahan Praktek Universitas Labuhanbatu pada Jenis Cacing Tanah di Beberapa Vegetasi Tanaman

ABDUL RAUF

2023
Jurnal nasional

PEMANFAATAN LIMBAH BAWANG MERAH YANG DIAPLIKASIKAN PADA TANAMAN SAWI (Brassica Juncea L.) SEBAGAI PUPUK ORGANIK CAIR (POC) DIDESA TEBING TINGGI PANGKATAN

ABDUL RAUF

2023
Jurnal nasional terakreditasi

Yield Evaluation of Upland Rice Varieties (Oryza sativa L.) in Several Levels of Soil Water Content

ABDUL RAUF , CHAIRANI HANUM L

2022
Buku referensi

INVENTARISASI LAHAN KAWASAN HUTAN DENGAN TUJUAN KHUSUS (KHDTK) IT-DEL

ABDUL RAUF , RAHMAWATY

2022
Book chapter nasional

PERAN GURU BESAR USU DALAM PEMECAHAN PERMASALAHAN BANGSA MELALUI PERSPEKTIF SUSTAINABLE DEVELOPMENT GOALS (SDGs)

ABDUL RAUF , RAHMAWATY , TAMRIN , ZULKIFLI NASUTION

2022
Jurnal internasional bereputasi

Cost Optimization of Aerobic-based Compost Production by System Dynamics Study in PT Eastern Sumatra Indonesia (PT ESI

ABDUL RAUF

2022
Jurnal internasional bereputasi

Preliminary study on C-organic and C-microbial biomass of peatland in Toba highlands

ABDUL RAUF , T SABRINA

2022
Jurnal internasional bereputasi

Comparison of the Yield of Different Rice Varieties Treated with L-Ascorbic Acid on Site-Specific Saline Soil

ABDUL RAUF

2022
Jurnal internasional bereputasi

Comparison of the yield of different rice varieties treated with L-ascorbic acid on site-specific saline soil

CHAIRANI HANUM L , ABDUL RAUF , ROSMAYATI

2022
Buku referensi

BUKU MASTER PLAN PROGRAM KONSERVASI DAERAH TANGKAPAN AIR (DTA) DANAU TOBA DAN DAERAH ALIRAN SUNGAI (DAS) ASAHAN

ABDUL RAUF , RAHMAWATY

2022
Jurnal nasional terakreditasi

Gap Analysis in Deli Watershed Management Measured by Stakeholders' Social Factors Deli North Sumatera

R. HAMDANI HARAHAP , ABDUL RAUF

2022
Jurnal internasional bereputasi

Effectiveness of Organic Materials as Media in Sulfate Reducing Bacteria Inoculum to Changes on Acid Sulfate Soils

ABDUL RAUF , ASMARLAILI SAHAR

2021
Prosiding seminar internasional

Improvement in Sandy Soil Chemistry Using Biogas Sludge Based on Organic Waste

ABDUL RAUF , HAMIDAH HANUM

2021
Jurnal internasional bereputasi

Rice production in North Aceh Regency based on N, P, K and C-organic studies

ABDUL RAUF

2021
Jurnal internasional

Dynamics of nutrition peat soil due the biochar of oil palm empty bunches application and nitrogen and kalium

ABDUL RAUF

2021
Jurnal nasional terakreditasi

Hubungan Curah Hujan dengan Pola Ketersediaan Air Tanah terhadap Produksi Kelapa Sawit (Elaeis guineensis Jacq) di Dataran Tingg

ABDUL RAUF

2021
Buku referensi

kAJIAN iMPLEMENTASI HASIL STUDI LAHAN KRITIS DAS ASAHAN HULU

RAHMAWATY , ABDUL RAUF

2021
Jurnal nasional terakreditasi

Kondisi dan Pengelolaan Kawasan Hulu DAS Belawan Hubungannya dengan Tingkat Bahaya Erosi pada Lahan Budidaya di Kabupaten Deli Serdang

MISWAR BUDI MULYA , ABDUL RAUF

2021
Prosiding seminar internasional

The application of Hydrogel (Super Absorbent Polymer) and chicken manure fertilizer to increase pH, N-total, C-organic and soil water content in Entisol

ABDUL RAUF , SARIFUDDIN

2021
Jurnal nasional

Upaya Rehabilitasi Tanah Sawah melalui Program Komposisasi Massal di Desa Serdang Kecamatan Beringin Kabupaten Deli Serdang

ABDUL RAUF

2021
Jurnal internasional bereputasi

Comparison of land cover classification in Pakpak Bharat Regency using Landsat 8 OLI and Sentinel 1A satellite imagery

ABDUL RAUF , BEJO SLAMET , SAMSURI

2021
Jurnal internasional bereputasi
Growth and Production Response of MungBeans (Vigna radiataL) with Mycorrhizal and Penicillium sp Applications on Paddy Fields
ABDUL RAUF , T SABRINA

2021
Buku referensi
Budidaya Padi Di Tanah Salin
WAN ARFIANI BARUS , ABDUL RAUF

2020
Jurnal nasional terakreditasi
EVALUASI KESESUAIAN LAHAN UNTUK TANAMAN KARET PADA AREAL PENGGUNAAN LAIN
RAHMAWATY , ABDUL RAUF

2020
Jurnal nasional terakreditasi
KARAKTERISTIK SIFAT FISIKA TANAH ULTISOL AKIBATPEMBERIAN BIOCHAR BERBAHAN BAKU SISA TANAMANKELAPA SAWIT
SUPRIADI , ABDUL RAUF

2020
Jurnal nasional terakreditasi
Pengaruh Aplikasi Tandan Kosong Kelapa Sawit dan Arang Sekam Padi terhadap Beberapa Sifat Kimia Tanah pada Tomat
ABDUL RAUF

2019
Jurnal nasional terakreditasi
Development for Food and Energy Security
ABDUL RAUF

2017
Jurnal internasional bereputasi
Controls of water and energy fluxes in oil palm plantations: Environmental variables and oil palm age
ABDUL RAUF

2010
Jurnal internasional bereputasi
Pesticides and tropical biodiversity
ABDUL RAUF

Researches

2025
Ipteks
Penelitian
ABDUL RAUF

Community Services

2025
Ipteks Bagi Masyarakat
Ketua Dewan Pakar Masyarakat Agroforestri Inonesia (MAFI)
NURHENI WIJAYANTO , ABDUL RAUF , BUDIADI

2025
Ipteks Bagi Masyarakat

TIM PELAKSANA PENYUSUNAN DOKUMEN STUDI KELAYAKAN INVESTASI DI KAWASAN PERTANIAN TERPADU KABUPATEN SAMOSIR (KPT) DESA HARIARA PINTU KECAMATAN HARIAN TAHUN 2024

YUSAK MARYUNIANTA , ABDUL RAUF , HELENA TATCHER PAKPAHAN , ZULFENDRI , T IRMANSYAH

2024
Ipteks Bagi Masyarakat

MITIGASI DAN ADAPTASI BENCANA HIDROMETEOROLOGI (ASPEK LINGKUNGAN, SOSIAL DAN EKONOMI) DI DESA HABEAHAN KECAMATAN LINTONG NIHUTA KABUPATEN HUMBANG HASUNDUTAN SUMATERA UTARA

ABDUL RAUF , FIKARWIN , T IRMANSYAH

2024
KKN Pembelajaran Pemberdayaan Masyarakat

Mitigasi dan Adaptasi Bencana Hidrometereologi (Aspek Lingkungan, Sosial, dan Ekonomi) di Desa Habeahan Kecamatan Lintong Nihuta Kabupaten Humbang Hasundutan Sumatera Utara

NUR ULINA WARNISYAH SEBAYANG , ABDUL RAUF

2024
Ipteks Bagi Masyarakat

Kegiatan Mitigasi Dan Adaptasi Bencana Hidrometeorologi (Aspek Lingkungan, Sosial Dan Ekonomi) di Desa Habeahan Kecamatan Lintong Nihuta Kabupaten Humbang Hasundutan Sumatera Utara, pada tanggal : 15 Mei sampai dengan 30 November 2024.

ABDUL RAUF , T IRMANSYAH

2024
Ipteks Bagi Masyarakat

MITIGASI DAN ADAPTASI BENCANA HIDROMETEOROLOGI (ASPEK LINGKUNGAN, SOSIAL DAN EKONOMI) DI DESA HABEAHAN KECAMATAN LINTONG NIHUTA KABUPATEN HUMBANG HASUNDUTAN SUMATERA UTARA

YUSAK MARYUNIANTA , ABDUL RAUF , FIKARWIN , T IRMANSYAH , ALYA PUTRI NATANDINI , DASSIO JONATHAN SINAGA , DESTI ASTRIA PUTRI , ALDIAN SAPUTRA NASUTION , NOVRINA ANGELITA PANJAITAN , NAOMI ITTEN AMBARITA , MUHAMMAD SYAHID ZIDAN , MUHAMMAD FURQAN ALFIANSYAH , RENALDI PRAWIRA SIBURIAN

2023
Ipteks Bagi Masyarakat

Gerakan Bersih Sungai dan Penanaman Pohon Produktif di Bantaran Sungai Deli Areal Istana Maimun Medan dalam Rangka Memperingati Hari Lingkungan Hidup Sedunia

KEMALA SARI LUBIS , ABDUL RAUF

2017
Ipteks Bagi Masyarakat

Temu Kinerja Implementasi Program Kelompok Swadaya Masyarakat (KSM) Mitra Kerja Forum DAS Lingkup Wilayah BPDAS-HL Wampu Sei Ular Prov Sumut

BENNY HIDAYAT , ABDUL RAUF

2017
Ipteks Bagi Masyarakat

BUDIDAYA TANAMAN GAHARU DI LAHAN PERKEBUNAN DENGAN APLIKASI TEKNIK SILVIKULTUR

BENNY HIDAYAT , ABDUL RAUF

2013
Penelitian Unggulan Perguruan Tinggi

Rekayasa Model Agroekosistem Perkebunan Melalui Pendekatan Keterpaduan Wilayah

2012
MP3EI

Model peningkatan produktivitas kelapa sawit berkelanjutan melalui sistem Agrosi

Intellectual Property Rights

2023
Hak cipta nasional

Musik Mars Sungai Deli

ABDUL RAUF

2023
Hak cipta nasional

Karya Rekaman Video Mars Sungai Deli

ABDUL RAUF

2022
Paten nasional

METODE BIOPORI DENGAN MULSA VERTIKAL UNTUK PENGELOLAAN AIR DAN HARA PADA PERKEBUNAN KELAPA SAWIT PRODUKTIF

CHAIRANI HANUM L , ABDUL RAUF

2022
Hak cipta nasional

Budidaya Kelapa Sawit Berkelanjutan

ABDUL RAUF

2021
Hak cipta nasional

Budidaya Padi di Tanah Salin

ABDUL RAUF

2020
Paten nasional

Proses Pembuatan Rorak dan Mulsa Vertikal pada Kebun Kelapa Sawit menghasilkan

ABDUL RAUF , CHAIRANI HANUM L

2020
Paten nasional

Komposisi Media Tanam untuk Pembibitan Kelapa Sawit Berbasis Limbah Industri Kelapa Sawit

JONATAN GINTING , CHAIRANI HANUM L , ABDUL RAUF