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Yuan Alfinsyah Sihombing, S.Pd., M.Sc was born in Tapanuli Tengah on July 05, 1989. He is a Physics lecturer at Universitas Sumatera Utara. He completed his last education in the Master's Program in Physics at Gadjah Mada University in 2013.

Publications

2026

Jurnal nasional terakreditasi

Reactive Diffusion Model in Determining Dissolution Rate of Edible Electronics Materials

YUAN ALFINSYAH SIHOMBING , ASTI SAWITRI , MARATHUR RODHIYAH

2026

Jurnal internasional bereputasi

Green-synthesized silver nanoparticles on sustainable screen-printed fabric electrode for enhanced uric acid detection

YUAN ALFINSYAH SIHOMBING , DHEWA EDIKRESNHA , ISA ANSHORI , DIAN AHMAD HAPIDIN , KHAIRURRIJAL

2025

Jurnal internasional bereputasi

Effect of Varying Chitosan Molecular Weights on the Morphology and Physical Characteristics of PVA/Chitosan Composite Hydrogels

WILLIAM XAVERIANO WARESINDO , DIAN AHMAD HAPIDIN , DHEWA EDIKRESNHA , KHAIRURRIJAL , Halida Rahmi Luthfianti , MARATHUR RODHIYAH , NUR'AINI NAFISAH , YUAN ALFINSYAH SIHOMBING

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Jurnal internasional bereputasi

Screen-printed activated carbon/coconut oil/beeswax electrodes on fabrics for uric acid detection

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2024

Jurnal internasional bereputasi

Enhanced Mechanical and Thermal Properties of Electrospun Cellulose Acetate Fiber Membranes Incorporating Pahae Natural Zeolite

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2024

Prosiding seminar internasional

Preparation and Characterization of PVA/Chitosan-Based Hydrogels Enriched with Carbon Materials via the Freeze-Thaw Method

DIAN AHMAD HAPIDIN , NUR'AINI NAFISAH , DHEWA EDIKRESNHA , YUAN ALFINSYAH SIHOMBING , KHAIRURRIJAL , ISA ANSHORI

2024

Prosiding seminar internasional

Electrical Resistivities of PVA/Activated Carbon-Based Hydrogels

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Jurnal internasional bereputasi

Konjac glucomannan-based hydrogels with health-promoting effects for potential edible electronics applications: A mini-review

Khairurrijal Khairurrijal , William Xaveriano Waresindo , Dian Ahmad Hapidin , Dhewa Edikresnha , Akfity Hasdi Aimon , Tri Suciati , Aan Priyanto , YUAN ALFINSYAH SIHOMBING

2023
Jurnal nasional terakreditasi

Calculating InN/GaN Transmission Coefficient from Single Barrier to Five Barriers with Propagation Matrix and Transfer Matrix Methods

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Calculating InN/GaN Transmission Coefficient from Single Barrier to Five Barriers with Propagation Matrix and Transfer Matrix Methods

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Detection and Extraction of Aroma Characteristics of Fuel Oil Using Gas Sensors Through Electronic-Nose System

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2021
Prosiding seminar internasional

Detection of the cooking oil aroma by using a gas sensor in an electronic nose system

YUAN ALFINSYAH SIHOMBING , M ALFARANDI RITONGA

2020
Prosiding seminar internasional

Detection of air temperature, humidity and soil pH by using DHT22 and pH sensor based Arduino nano microcontroller

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Detection of air temperature, humidity and soil pH by using DHT22 and pH sensor based Arduino nano microcontroller

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Local bearing empowerment towards smart society

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