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*Prof. Dr. Ir. Muhammad Turmuzi, M.S. was born in Hutarimbaru, South Tapanuli, on December 25, 1961. He is a Lecturer in Chemical Engineering at Universitas Sumatera Utara. He completed a Doctoral Program in Chemistry & Process Engineering at UKM in 2005.*

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## Publications

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2026

Prosiding seminar internasional

### **Effect of temperature on methanogenesis stage of two-stage anaerobic digestion of palm oil mill effluent (POME) into biogas**

MUHAMMAD TURMUZI

2023

Jurnal internasional bereputasi

### **A Review of Properties, Engine Performance, Emission Characteristics and Material Compatibility Biodiesel From Waste Cooking Oil (WCO)**

MUHAMMAD TURMUZI

2022

Jurnal nasional

### **Pengelolaan integrasi ekologi lubang larangan Tambangan Jae Kabupaten Mandailing Natal**

AMEILIA ZULIYANTI SIREGAR , MARPONGAHTUN , MUHAMMAD TURMUZI , ZULKIFLI NASUTION

2026

Jurnal nasional terakreditasi

### **Penggunaan tanah bentonit sebagai adsorben logam Cu**

MUHAMMAD TURMUZI

2017

Prosiding seminar internasional

### **Acclimatization process of tofu wastewater on hybrid upflow anaerobic sludge blanket reactor using polyvinyl chloride rings as a growth medium**

MUHAMMAD TURMUZI

2017

Prosiding seminar internasional

### **Effect of temperature on methanogenesis stage of two-stage anaerobic digestion of palm oil mill effluent**

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### **Effect of agitation on methanogenesis stage of two-stage anaerobic digestion of palm oil mill effluent (POME) into biogas**

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2026

Jurnal nasional terakreditasi

### **RANCANGAN PENGERING ENERGI SURYA MENGGUNAKAN KOLEKTOR DAN**

# KIPAS UNTUK PENERANGAN KAKAO FERMENTASI

MUHAMMAD TURMUZI

2017

Prosiding seminar internasional

## **Effect of agitation on methanogenesis stage of two-stage anaerobic digestion of palm oil mill effluent**

MUHAMMAD TURMUZI

2026

Prosiding seminar internasional

## **Effect of Agitation on Acidogenesis Stage of Two-Stage Anaerobic Digestion of Palm Oil Mill Effluent (POME) into Biogas**

MUHAMMAD TURMUZI

2017

Prosiding seminar internasional

## **Effect of agitation on Acidogenesis stage of two-stage anaerobic digestion of palm oil mill effluent**

MUHAMMAD TURMUZI

2026

Jurnal internasional bereputasi

## **Production of activated carbon from candlenut shell by CO<sub>2</sub> activation**

MUHAMMAD TURMUZI

2026

Jurnal nasional terakreditasi

## **PEMBUATAN KARBON AKTIF DARI KULIT SALAK (Salacca Zalacca) DENGAN PROSES FISIKA MENGGUNAKAN UAP DENGAN PEMANAS MICROWAVE**

MUHAMMAD TURMUZI

2018

Jurnal internasional

## **The effect of organic loading rate variation on digestion of tofu wastewater using PVC rings as growth media in a hybrid UASB reactor**

MUHAMMAD TURMUZI

2026

Prosiding seminar internasional

## **Analysis of carbon monoxide (CO) with Delhi Finite Line Source (DFLS) in MT Haryono Street, Medan City**

MUHAMMAD TURMUZI

2004

Jurnal internasional bereputasi

## **Production of activated carbon from candlenut shell by CO<sub>2</sub> activation**

MUHAMMAD TURMUZI

2026

Jurnal internasional bereputasi

## **Kesan resin purolit a400-cu terhadap penjerapan nitrat dan nitrit dalam rawatan air sisa**

MUHAMMAD TURMUZI

2020

Prosiding seminar internasional

## **Adsorption interaction model of adsorbents white sand with heavy metals cadmium (Cd<sup>2+</sup>) naturally**

MUHAMMAD TURMUZI

2018

Prosiding seminar internasional

## **Effect of pH and complementary ion concentration on nitrate removal using puroliteA400 Resin impregn**

MUHAMMAD TURMUZI

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2026

Jurnal nasional terakreditasi

**PENGARUH KONSENTRASI ASAM FOSFAT DALAM PROSES PEMBUATAN KARBON AKTIF SECARA KIMIA DARI BAHAN BAKU KULIT SALAK**

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2026

Prosiding seminar internasional

**Effect of openings collectors and solar irradiance on the thermal efficiency of flat plate-finned collector for indirect-type passive solar dryer**

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2015

Jurnal nasional terakreditasi

**Pengaruh Temperatur Dalam Pembuatan Karbon Aktif Dari Kulit Salak (Salacca Sumatrana) Dengan Aktifator Seng Klorida (ZnCl<sub>2</sub>)**

MUHAMMAD TURMUZI

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2017

Prosiding seminar internasional

**Acclimatization process of tofu wastewater on hybrid upflow anaerobic sludge blanket reactor using p**

MUHAMMAD TURMUZI

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2026

Prosiding seminar internasional

**Simulating the potential for Carbon Dioxide (CO<sub>2</sub>) reduction by the application of environmentally friendly transportation (case study: Gatot Subroto Street, Medan City)**

MUHAMMAD TURMUZI

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2026

Jurnal nasional terakreditasi

**Aplikasi karbon aktif dari cangkang kelapa sawit dengan aktivator H<sub>3</sub>PO<sub>4</sub> untuk penyerapan logam berat Cd dan Pb**

MUHAMMAD TURMUZI

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2026

Jurnal internasional

**Determination of Kinetic Models in Acidogenesis Process of Palm Oil Mill Effluent.**

MUHAMMAD TURMUZI

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2018

Prosiding seminar internasional

**Simulating the potential for Carbon Dioxide (CO<sub>2</sub>) reduction by the application of environ**

MUHAMMAD TURMUZI

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2026

Prosiding seminar internasional

**Nitrate Removal Using Mg Modified Zeolite in Fluidized-Bed System**

MUHAMMAD TURMUZI

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2026

Jurnal nasional terakreditasi

**Pengembangan Pori Arang Hasil Pirolisa Tempurung Kemiri**

MUHAMMAD TURMUZI

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2018

Prosiding seminar internasional

**Adsorption kinetic in fixed-bed column using Purolite Resin A400 resin impregnated with Cu metal**

MUHAMMAD TURMUZI

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2026  
Jurnal nasional terakreditasi

## **Aplikasi Karbon Aktif Dari Tempurung Kelapa Sawit Dengan Aktivator H<sub>3</sub>PO<sub>4</sub> Untuk Penyerapan Logam Cd Dan Pb**

MUHAMMAD TURMUZI

2026  
Jurnal internasional

## **Effect of Hydraulic Retention Time and pH**

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2018  
Jurnal internasional bereputasi

## **The Effect of Organic Loading Rate Variation on Digestion of Tofu Wastewater using PVC Rings as Growth Media in a Hybrid UASB Reactor**

MUHAMMAD TURMUZI

2026  
Jurnal nasional

## **Pengaruh suhu dalam pembuatan karbon aktif dari kulit salak (Salacca Edulis) dengan impregnasi asam fosfat (H<sub>3</sub>PO<sub>4</sub>)**

MUHAMMAD TURMUZI

2018  
Jurnal nasional terakreditasi

## **Pengaruh Kecepatan Angin, Kelembapan dan Suhu Udara terhadap konsentrasi SO<sub>2</sub> Ambien dan Pemetaan SO<sub>2</sub> Ambien di Sekitar PT. Kawasan Industri Medan**

MUHAMMAD TURMUZI

2018  
Jurnal internasional bereputasi

## **Acclimatization Process on Hybrid Upflow Anaerobic Sludge Blanket Reactor (HUASBR) Using Bioball As Growth Media with OLR Variation for Treating Tofu Wastewater**

MUHAMMAD TURMUZI

2018  
Prosiding seminar internasional

## **Analysis of carbon monoxide (CO) with Delhi Finite Line Source (DFLS) in MT Haryono Street, Medan Ci**

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2026  
Prosiding seminar internasional

## **Taslim and Turmuzi M 2017 Effect of agitation on methanogenesis stage of two-stage anaerobic digestion of palm oil mill effluent (POME) into biogas**

MUHAMMAD TURMUZI

2017  
Jurnal internasional bereputasi

## **Acclimatization process of tofu wastewater on hybrid upflow anaerobic sludge blanket reactor using polyvinyl chloride rings as a growth medium**

MUHAMMAD TURMUZI

2017  
Prosiding seminar internasional

## **Effect of openings collectors and solar irradiance on the thermal efficiency of flat plate-finned co**

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2023  
Jurnal internasional bereputasi

## **Variations of Organic Loading Rate on Tofu Wastewater Degradation using Upflow Anaerobic Sludge Blanket Reactor by Modified Stover-Kincannon Model**

MUHAMMAD TURMUZI

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2026

Prosiding seminar internasional

**Effect of pH and complementary ion concentration on nitrate removal using puroliteA400 Resin impregnated Cu in batch system**

MUHAMMAD TURMUZI

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2020

Prosiding seminar internasional

**Adsorption interaction model of adsorbents white sand with heavy metals cadmium ( $\text{Cd}^{2+}$ ) naturally**

MUHAMMAD TURMUZI

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2015

Prosiding seminar internasional

**Acidogenesis of palm oil mill effluent to produce biogas: effect of hydraulic retention time and pH**

MUHAMMAD TURMUZI

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2026

Prosiding seminar internasional

**Start-Up of Upflow Anaerobic Sludge Blanket (UASB) Reactor Treating Slaughterhouse Wastewater**

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