



**DR. TENGKU SHAFAZILA BT
TENGKU SAHARUDDIN**

PENSYARAH UNIVERSITI DS13

CONTACT

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Address: Fakulti Sains Dan
Teknologi

SUPERVISION

PhD - Completed: 0, Ongoing: 0

Master - Completed: 2, Ongoing: 0

AREAS OF EXPERTISE

Chemistry Of Catalysis

Phytochemicals

BIOGRAPHY

A lecturer from Fakulti Sains Dan Teknologi. Holds a Phd in Kimia.

ACADEMIC QUALIFICATION

Phd in Kimia (2017)

Master in Kimia (2013)

Bachelor in Kimia Petroleum (2005)

RESEARCH

1. SYNTHESIS OF CU EMBEDDED MAGNETIC HYDROCHAR
NANOCOMPOSITE DERIVED FROM COCONUT HUSK FOR CATALYTIC
DEGRADATION OF ORGANIC POLLUTANT

2024

ON GOING

MAIN RESEARCHER

2. PHYSICOCHEMICAL PROPERTIES OF MODIFIED
PHOSPHOMOLYBDIC ACID/HYDROTALCITE CATALYZED
HYDROLYTIC OXIDATION OF CELLULOSE TO FORMIC ACID

2019

COMPLETED

MAIN RESEARCHER

3. ENCAPSULATION OF KAFFIR LIME LEAVES ESSENTIAL OIL IN
CHITOSAN AND ITS ANTIMICROBIAL ACTIVITY

2018

COMPLETED

MAIN RESEARCHER

PUBLICATION

1. INFLUENCE OF CERIUM ON THE REDUCTION BEHAVIOUR OF IRON OXIDE BY USING CARBON MONOXIDE: TPR AND KINETIC STUDIES

2019 JOURNAL

2. CHARACTERIZATION OF ENCAPSULATED GINGER ESSENTIAL OILS AND ITS ANTIMICROBIAL PROPERTIES

2019 PROCEEDING

3. EFFECT OF RHODIUM ADDITIVE ON THE REDUCTION BEHAVIOUR OF IRON OXIDE IN CARBON MONOXIDE ATMOSPHERE

2017 JOURNAL

4. STUDIES ON REDUCTION OF CHROMIUM DOPED IRON OXIDE CATALYST USING HYDROGEN AND VARIOUS CONCENTRATION OF CARBON MONOXIDE

2017 JOURNAL

AWARDS/RECOGNITION

1. ANUGERAH REKABENTUK INOVASI PENGAJARAN DAN PEMBELAJARAN UNIVERSITI SAINS ISLAM MALAYSIA TAHUN 2025

2025 UNIVERSITY

2. FROM HUSK TO HOPE ?COCONUT HUSK-BASED MAGNETIC CATALYST FOR SUSTAINABLE TEXTILE WASTEWATER TREATMENT

2025 Antarabangsa Silver

3. FROM AGRO-WASTE TO BIOETHANOL: GREEN TECHNOLOGY FOR TAYYIB SUSTAINABILITY

2025 Antarabangsa Bronze

4. CA²⁺ AND FE³⁺ IMPREGNATED CHICKEN BONE AS HETEROGENEOUS CATALYSIS FOR BIODIESEL PRODUCTION FROM WASTE COOKING OIL

2024 Antarabangsa Bronze

5. FUN INTERACTIVE LEARNING GAMES FOR HIGH SCHOOL AND UNIVERSITY STUDENTS OF CHEMISTRY: BOARD OF CHEMICAL REACTION WITH A CHEM CARDS AND CHEM FACT CARDS.

2023 Universiti Gold