

Profile Image

**PROF. MADYA DR.
FARAH WAHIDA BINTI
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PENSYARAH UNIVERSITI DS14

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Faculty: Fakulti Sains
Dan Teknologi

SUPERVISION

PhD - Completed: 5, Ongoing: 0

Master - Completed: 4,
Ongoing: 1

AREAS OF EXPERTISE

Catalysis, Kinetics And Mechanisms Of Reactions

Biomass Fuel And Energy

ACADEMIC QUALIFICATION

PhD in Chemistry (2010)

Master in Science Chemistry (2005)

Bachelor in Science (2003)

RESEARCH

1. MODIFIED WASTE CHICKEN BONES DERIVED BI-FUNCTIONAL CATALYST FOR BIODIESEL PRODUCTION FROM HIGH FREE FATTY ACIDS WASTE COOKING OIL

2021 GERAN PENYELIDIKAN USIM ON GOING MAIN RESEARCHER

2. MONTMORILLONITE CLAY MODIFIED WITH METAL CATIONS AS ACID CATALYSTS FOR BIODIESEL PRODUCTION FROM WASTE COOKING OIL.

2017 GERAN KPT COMPLETED MAIN RESEARCHER

3. METAL CATION -EXCHANGED MONTMORILLONITE K10 AS A GREEN CATALYST FOR PRODUCTION OF OLEIC ACID ALKYL ESTERS

2016 GERAN PENYELIDIKAN TRANSNASIONAL COMPLETED MAIN RESEARCHER

4. IMMOBILIZED METAL COMPLEXES ON MONTMORILLONITE AS HETEROGENEOUS CATALYST FOR EPOXIDATION OF PALM OIL.

2012 GERAN KPT COMPLETED MAIN RESEARCHER

5. DEVELOPMENT OF AN ALTERNATIVE MATERIAL FOR HYDROGEN STORAGE DERIVED FROM MONTMORILLONITE NANOCALY

2012 GERAN PENYELIDIKAN USIM COMPLETED MAIN RESEARCHER

RESEARCH

6. PRELIMINARY STUDY OF BIO-BASED SHAPE MEMORY POLYURETHANE NANOCOMPOSITES FOR BIOMEDICAL APPLICATION

2011

GERAN PENYELIDIKAN FUNDAMENTAL

COMPLETED

MAIN RESEARCHER

PUBLICATION

1. PRELIMINARY STUDY ON THE USE OF MAGNETIZE FE₃O₄-ZRO₂ CATALYST FOR BIODIESEL PRODUCTION

SEMINAR ANTARABANGSA ISLAM DAN SAINS 2023

2023 PROCEEDING NON-INDEX MAIN AUTHOR

2. PHYSICOCHEMICAL PROPERTIES OF REFINED PALM COOKING OIL AND USED PALM COOKING OIL

MATERIALS TODAY: PROCEEDINGS

2019 JOURNAL SCOPUS AND ERA MAIN AUTHOR

3. FOURIER TRANSFORM INFRARED SPECTROSCOPY AS A TECHNIQUE FOR MULTIVARIATE ANALYSIS OF LARD ADULTERATION IN FOOD PRODUCTS: A REVIEW

JOURNAL OF FATWA MANAGEMENT AND RESEARCH

2019 JOURNAL MYCITE MAIN AUTHOR

4. MONTMORILLONITE K10 MODIFIED WITH FE₃+ FOR BIODIESEL PRODUCTION FROM WASTE COOKING OIL

INTERNATIONAL SYMPOSIUM ON ADVANCED MATERIALS AND NANOTECHNOLOGY

2019 PROCEEDING NON-INDEX MAIN AUTHOR

5. ESTERIFICATION OF OLEIC ACID WITH ALCOHOLS OVER CU-MMT K10 AND FE-MMT K10 AS ACID CATALYSTS

AIP CONFERENCE PROCEEDING

2018 JOURNAL SCOPUS MAIN AUTHOR

6. CU₂+ MONTMORILLONITE K10 CLAY CATALYST AS A GREEN CATALYST FOR PRODUCTION OF STEARIC ACID METHYL ESTER: OPTIMIZATION USING RESPONSE SURFACE METHODOLOGY (RSM)

BULLETIN OF CHEMICAL REACTION ENGINEERING & CATALYSIS

2018 JOURNAL WOS MAIN AUTHOR

7. FOURIER TRANSFORMS INFRA-RED SPECTROSCOPY: PRINCIPLE AND ITS APPLICATION IN HALAL INDUSTRY

HALAL SCIENCE AND TECHNOLOGY MODULE (TECHNIQUES AND INSTRUMENTS IMPLEMENTED FOR HALAL ANALYSIS OF PRODUCTS)

2018 CHAPTER IN BOOK MAIN AUTHOR

8. M-MMT K10 (M: CU, AL AND FE) AS CATALYSTS FOR THE ESTERIFICATION OF ACETIC ACID AND STEARIC ACID WITH METHANOL

PROCEEDINGS OF THE WORLD CONGRESS ON ENGINEERING AND COMPUTER SCIENCE

2017 PROCEEDING NON-INDEX MAIN AUTHOR

9. STEARIC ACID ESTERS SYNTHESIZED USING IRON EXCHANGED MONTMORILLONITE K10 CLAY CATALYSTS

INTERNATIONAL JOURNAL OF APPLIED CHEMISTRY

2016 JOURNAL SCOPUS MAIN AUTHOR

10. METAL CATION EXCHANGED MONTMORILLONITE K10(MMTK10): SURFACE PROPERTIES AND CATALYTIC ACTIVITY

JOURNAL OF SCIENTIFIC RESEARCH AND DEVELOPMENT

2016 JOURNAL WOS MAIN AUTHOR

11. THE PHOTOCHEMISTRY OF CR(CO)₆ IN HIGH PRESSURE LOW TEMPERATURE POLYMER MATRIX MONITORED BY FOURIER TRANSFORM INFRARED AND UV-VIS SPECTROSCOPY

JURNAL TEKNOLOGI

2016 JOURNAL SCOPUS MAIN AUTHOR

12. ANALYTICAL METHODS TO ANALYZE LARD IN FOOD PRODUCTS

CHEMISTRY OF FOOD, HEALTH AND TECHNOLOGY IN ISLAMIC CITATIONS

2016 CHAPTER IN BOOK MAIN AUTHOR

13. THE PHOTOCHEMISTRY OF CR(CO)₆ IN HIGH PRESSURE LOW TEMPERATURE POLYMER MATRIX MONITORED BY FOURIER TRANSFORM INFRARED AND UV-VIS SPECTROSCOPY

INTERNATIONAL SYMPOSIUM ON SCIENCES AND MATHEMATICS (ISYSM2015)

2015 PROCEEDING NON-INDEX MAIN AUTHOR

PUBLICATION

14. ALUMINUM MODIFIED MONTMORILLONITE K10 (AL-MMT K10) AS AN ENVIRONMENTAL FRIENDLY CATALYST IN PRODUCTION OF STEARIC ACID ESTERS

MALAYSIAN RESEARCH CONFERENCE AND INNOVATION EXHIBITION (MRCIE 2015)

2015 PROCEEDING NON-INDEX MAIN AUTHOR

15. PREPARATION AND CHARACTERIZATION OF IMMOBILIZED MOLYBDENUM COMPLEX ON PILLARED MONTMORILLONITE K-10

SEOUL INTERNATIONAL CONFERENCE ON APPLIED SCIENCE AND ENGINEERING (SICASE 2014)

2014 PROCEEDING NON-INDEX MAIN AUTHOR

16. QUANTIFICATION OF AMORPHOUS CIMETIDINE USING FT-RAMAN SPECTROSCOPY

PIONEERING ISLAMIC SCIENCE SPEARHEADING KNOWLEDGE

2014 CHAPTER IN BOOK MAIN AUTHOR

17. THE PHOTOCHEMISTRY OF CR(CO)₆ USING MATRIX ISOLATION TECHNIQUE

SEMINAR HASIL PENYELIDIKAN, KPT

2013 PROCEEDING NON-INDEX MAIN AUTHOR

18. BASICS OF FOURIER TRANSFORM INFRA RED SPECTROSCOPY AND ITS SAMPLE PREPARATION

PROFESSIONAL HALAL ANALYST MODULE

2013 CHAPTER IN BOOK MAIN AUTHOR

19. THE PHOTOCHEMISTRY OF METAL CARBONYL USING MATRIX ISOLATION TECHNIQUE

FUNDAMENTAL SCIENCE CONGRESS 2012

2012 PROCEEDING NON-INDEX MAIN AUTHOR

20. ISLAM PEMANGKIN SAINS DAN TEKNOLOGI.

ISLAM HADHARI DAN KEHIDUPAN.

2006 CHAPTER IN BOOK MAIN AUTHOR

21. PENCIRIAN BAHAN MESOPOROS MCM-41 YANG DIMODIFIKASIKAN DENGAN TITANIUM.

THE MALAYSIAN JOURNAL OF ANALYTICAL SCIENCES

2005 JOURNAL WOS MAIN AUTHOR

CONSULTATION

1. SISTEM KEDATANGAN PELAJAR UNIVERSITI SAINS ISLAM MALAYSIA (USIM)

NONE

2023

UNIVERSITY

2. PENSIJILAN - ADVANCE QA/QC PROCEDURES FOR LABORATORIES

KEMENTERIAN PENGAJIAN TINGGI

2022

UNIVERSITY

3. PROFESSTONAL HALAL TRAINING PROGRAM (PHTP) SIRI 1/2017

INSTITUTE OF HALAL RESEARCH AND MANAGEMENT (IHRAM)

2017

NATIONAL

AWARDS/RECOGNITION

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

VIRTUAL INNOVATION COMPETITION 2024

2024

ANTARABANGSA

BRONZE

2. ACADEMIC ADVISOR

DARUL QURAN JAKIM

2020

NATIONAL

3. ACADEMIC ADVISOR

UNIVERSITI KEBANGSAAN MALAYSIA

2019

NATIONAL

4. ACADEMIC ADVISOR

UNIVERSITI TEKNOLOGI MARA (UITM)

2019

NATIONAL

5. ACADEMIC ADVISOR

KPJ HEALTHCARE UNIVERSITY COLLAGE

2019

NATIONAL