

Profile Image

## PROF. MADYA DR. FARAH WAHIDA BINTI HARUN

PENSYARAH UNIVERSITI DS14

### CONTACT

**Phone:** 6531

**E-mail:**

farahw@usim.edu.my

**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. ISOLATION AND CHARACTERIZATION OF BIOACTIVE COMPOUNDS FROM DUKUNG ANAK (PHYLLANTUS NIRURI), JATI BELANDA (GHUAZUMA ULMIFOLIA) AND JINTAN HITAM (NIGELLA SATIVA) AS A POTENTIAL ANTI-BACTERIAL AGENT**

2023

GERAN SEPADAN ANTARABANGSA

ON GOING

CO-RESEARCHER

**2. EVALUATION OF ACTIVATED CARBONS FROM ANIMALS BONES USING FTIR AND TGA COMBINED WITH CHEMOMETRICS TECHNIQUES FOR HALAL AUTHENTICATION**

2023

GERAN PENYELIDIKAN PUSAT TANGGUNGJAWAB (PTJ)

ON GOING

CO-RESEARCHER

**3. ZRO<sub>2</sub>-FE<sub>3</sub>O<sub>4</sub> AS A NANO-MAGNETIC BIFUNCTIONAL CATALYST FOR BIODIESEL PRODUCTION FROM WASTE COOKING OIL**

2022

GERAN PENYELIDIKAN USIM

ON GOING

CO-RESEARCHER

**4. FORMULATING A METHOD TO DETECT CONTAMINANT IN WATER BASED ON LIGHT PROPAGATION THEORY FOR CONSERVING NATURAL WATER RESOURCES**

2021

GERAN KPT

ON GOING

CO-RESEARCHER

**5. 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

# RESEARCH

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## 6. EFFECTIVENESS OF HALAL ACTION FOR YOUNG SCIENTIST PROJECT AMONG SECONDARY STUDENTS

2017 GERAN PENYELIDIKAN AGENSI KERAJAAN COMPLETED CO-RESEARCHER

## 7. MECHANISM OF SHAPE MEMORY PROPERTIES BY CELLULOSE NANOCRYSTAL (CNC) IN PALM OIL BASED POLYOL

2017 GERAN ANTARABANGSA COMPLETED CO-RESEARCHER

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

2017 GERAN KPT COMPLETED MAIN RESEARCHER

## 9. ELECTRICAL STUDIES OF RENEWABLE BIONANOCOMPOSITE BIOPOLYMER ELECTROLYTE FOR DYE SENSITIZED SOLAR CELL (DSSC) APPLICATION

2016 GERAN KPT COMPLETED CO-RESEARCHER

## 10. ISOLATION, PURIFICATION AND CHARACTERIZATION OF USED PALM OIL-DEGRADING BACTERIA FROM POLLUTED SOIL AND WATER AROUND NILAI, NEGERI SEMBILAN

2016 GERAN PENYELIDIKAN TRANSNASIONAL COMPLETED CO-RESEARCHER

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

2016 GERAN PENYELIDIKAN TRANSNASIONAL COMPLETED MAIN RESEARCHER

## 12. CHEMOMETRICS EVALUATION OF SATURATED AND POLYUNSATURATED FATTY ACIDS IN LARD AND EDIBLE FATS ON HEAT TREATMENT PROCESS.

2015 GERAN KPT COMPLETED CO-RESEARCHER

## 13. BIOCOMPATIBLE CALCINED LAYERED DOUBLE HYDROXIDES AS SUPPORT FOR EFFICIENT IMMOBILIZATION OF BIOCATALYSTS

2012 GERAN KPT COMPLETED CO-RESEARCHER

## 14. SELF SENSING ACTUATOR MADE FROM THE CELLULOSE NANOCRYSTAL (CNC) AND BIO-BASED SHAPE MEMORY POLYURETHANE (SMPU)

2012 GERAN KPT COMPLETED CO-RESEARCHER

## 15. PROFESSIONAL HALAL ANALYST PROGRAM

2012 GERAN KPT COMPLETED CO-RESEARCHER

## 16. BIOCOMPATIBILITY OF BIO-BASED SHAPE MEMORY POLYURETHANE NANOCOMPOSITE FOR BIOMEDICAL APPLICATION

2012 GERAN PENYELIDIKAN PENTADBIR COMPLETED CO-RESEARCHER

## 17. NEW ACTIVATED BIOCATALYST IN THIN FILM OF CELLULOSE DERIVATIVE

2012 GERAN PENYELIDIKAN USIM COMPLETED CO-RESEARCHER

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

2012 GERAN KPT COMPLETED MAIN RESEARCHER

## 19. DEVELOPMENT OF AN ALTERNATIVE MATERIAL FOR HYDROGEN STORAGE DERIVED FROM MONTMORILLONITE NANOCCLAY

2012 GERAN PENYELIDIKAN USIM COMPLETED MAIN RESEARCHER

## 20. STUDY ON THE ACTUATING MECHANISM OF SELF SENSING ACTUATOR MADE FROM THE PALM OIL BASED SHAPE MEMORY POLYURETHANE (SMPU)

2011 GERAN KPT COMPLETED CO-RESEARCHER

## 21. PRELIMINARY STUDY OF CAPROLACTONE/PALM KERNEL OIL BASED POLYOL FOR POLYURETHANE BIOADHESIVE

2011 GERAN PENYELIDIKAN FUNDAMENTAL COMPLETED CO-RESEARCHER

# RESEARCH

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

2011

GERAN PENYELIDIKAN FUNDAMENTAL

COMPLETED

MAIN RESEARCHER

# PUBLICATION

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## 1. DEVELOPMENT OF CA<sub>2</sub>+ AND FE<sub>3</sub>+ MODIFIED CHICKEN BONE AS CATALYST FOR BIODIESEL PRODUCTION FROM WASTE COOKING OIL

1ST INTERNATIONAL SCIENCE, ENGINEERING AND TECHNOLOGY COLLOQUIUM (ISETC 2024)

2024 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 2. CA<sub>2</sub>+ AND FE<sub>3</sub>+ IMPREGNATED CHICKEN BONE AS HETEROGENEOUS CATALYSTS FOR BIODIESEL PRODUCTION FROM WASTE COOKING OIL

APS PROCEEDINGS

2024 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 3. UNDERSTANDING THE CATION EXCHANGE AFFINITY IN MODIFIED-MMT CATALYSTS FOR THE CONVERSION OF GLUCOSE TO LACTIC ACID

RSC ADVANCES

2023 JOURNAL ISI CO-AUTHOR

## 4. PRELIMINARY STUDY ON THE USE OF MAGNETIZE FE<sub>3</sub>O<sub>4</sub>-ZRO<sub>2</sub> CATALYST FOR BIODIESEL PRODUCTION

SEMINAR ANTARABANGSA ISLAM DAN SAINS 2023

2023 PROCEEDING NON-INDEX MAIN AUTHOR

## 5. DIRECT CATALYTIC CONVERSION OF CELLULOSE INTO FORMIC ACID BY SUPPORTED PHOSPHOTUNGSTIC ACID CATALYST

MALAYSIAN JOURNAL OF ANALYTICAL SCIENCES

2022 JOURNAL SCOPUS CO-AUTHOR

## 6. EFFECT OF DIFFERENT SUPPORTED HETEROPOLY ACID ON THE CATALYTIC HYDROTHERMAL CONVERSION OF CELLULOSE INTO FORMIC ACID

MATERIALS SCIENCE FORUM

2022 JOURNAL ERA CO-AUTHOR

## 7. COMPARATIVE STUDY ON LIPASE IMMOBILIZED ONTO ORGANO-CATION EXCHANGED KAOLIN AND METAKAOLIN: SURFACE PROPERTIES AND CATALYTIC ACTIVITY

BULLETIN OF CHEMICAL REACTION ENGINEERING AND CATALYSIS

2021 JOURNAL SCOPUS CO-AUTHOR

## 8. EPOXIDATION OF CYCLOHEXENE CATALYZED BY VANADIUM COMPLEX SUPPORTED ON MONTMORILLONITE K-10

INTERNATIONAL TRANSACTION JOURNAL OF ENGINEERING, MANAGEMENT, & APPLIED SCIENCES & TECHNOLOGIES

2021 JOURNAL WOS CORRESPONDING AUTHOR

## 9. MODIFICATION OF KAOLINITE CLAY USING BENZYLTRIETHYLAMMONIUM CHLORIDE AS A SURFACTANT: PREPARATION AND CHARACTERIZATION

INTERNATIONAL JOURNAL OF ENGINEERING AND TECHNOLOGY(UAE)

2020 JOURNAL SCOPUS CO-AUTHOR

## 10. MODIFICATION OF KAOLINITE CLAY USING BENZYLTRIETHYLAMMONIUM CHLORIDE AS A SURFACTANT: PREPARATION AND CHARACTERIZATION

INTERNATIONAL JOURNAL OF ENGINEERING & TECHNOLOGY

2020 JOURNAL OTHER DATABASE CO-AUTHOR

## 11. OPTIMIZATION OF MONTMORILLONITE K10 ION-EXCHANGE WITH FE<sub>3</sub>+ FOR THE APPLICATION OF BIODIESEL PRODUCTION

MALAYSIAN JOURNAL OF ANALYTICAL SCIENCES

2020 JOURNAL SCOPUS CORRESPONDING AUTHOR

## 12. OPTIMIZATION OF BIODIESEL PRODUCTION FROM WASTE COOKING OIL USING FE-MONTMORILLONITE K10 BY RESPONSE SURFACE METHODOLOGY

RENEWABLE ENERGY

2020 JOURNAL ERA CORRESPONDING AUTHOR

## 13. NAKED EYE CHEMOSENSING OF ANIONS BY SCHIFF BASES

CRITICAL REVIEWS IN ANALYTICAL CHEMISTRY

2020 JOURNAL ERA CO-AUTHOR

# PUBLICATION

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## 14. PHYSICOCHEMICAL PROPERTIES OF REFINED PALM COOKING OIL AND USED PALM COOKING OIL

MATERIALS TODAY: PROCEEDINGS

2019 JOURNAL SCOPUS AND ERA MAIN AUTHOR

## 15. CONTACT ANGLE PROPERTIES OF BIOACRYLIC PALM OIL BASED POLYOL FOR POLYURETHANE COATING

MATERIALS SCIENCE FORUM

2019 JOURNAL ERA CO-AUTHOR

## 16. 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

## 17. MONTMORILLONITE K10 MODIFIED WITH FE<sub>3</sub>+ FOR BIODIESEL PRODUCTION FROM WASTE COOKING OIL

INTERNATIONAL SYMPOSIUM ON ADVANCED MATERIALS AND NANOTECHNOLOGY

2019 PROCEEDING NON-INDEX MAIN AUTHOR

## 18. ANALYTICAL CHEMISTRY IN HALAL AND TOYYIB IDENTIFICATION

2019 BOOK CO-AUTHOR

## 19. IMMOBILIZATION OF ENZYME USING NATURAL FELDSPAR FOR USE IN THE SYNTHESIS OF OLEYL OLEATE

AIP CONFERENCE PROCEEDINGS

2018 JOURNAL SCOPUS CO-AUTHOR

## 20. 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

## 21. INCORPORATION OF PALM OIL POLYOL IN SHAPE MEMORY POLYURETHANE: IMPLICATION FOR DEVELOPMENT OF CARDIOVASCULAR STENT

POLYMERS FOR ADVANCED TECHNOLOGIES

2018 JOURNAL WOS CO-AUTHOR

## 22. DIFFERENTIATION OF EDIBLE FATS FROM SELECTED SOURCES AFTER HEATING TREATMENTS USING FOURIER TRANSFORM INFRARED SPECTROSCOPY (FTIR) AND MULTIVARIATE ANALYSIS

AIP CONFERENCE PROCEEDINGS

2018 JOURNAL SCOPUS CO-AUTHOR

## 23. CU<sub>2</sub>+ 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

## 24. PROFESSIONAL HALAL TRAINING PROGRAMME HALAL SCIENCE AND TECHNOLOGY MODULE (TECHNIQUES AND INSTRUMENTS IMPLEMENTED FOR HALAL ANALYSIS OF PRODUCTS)

2018 BOOK CO-AUTHOR

## 25. RECENT ADVANCEMENT ON APPLIED PHYSICS, INDUSTRIAL CHEMISTRY AND CHEMICAL TECHNOLOGY

2018 BOOK CO-EDITOR

## 26. 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

# PUBLICATION

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## 27. 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

## 28. SYNTHESIS AND BIOLOGICAL EVALUATION OF 6-HYDROXY-4-METHYL-5,7-(BIS-P-CHLOROPHENYLAZO) COUMARIN

AMERICAN JOURNAL OF APPLIED SCIENCES

2016 JOURNAL SCOPUS CO-AUTHOR

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

INTERNATIONAL JOURNAL OF APPLIED CHEMISTRY

2016 JOURNAL SCOPUS MAIN AUTHOR

## 30. IN VIVO ASSESSMENT OF ANTIOXIDANT AND WOUND HEALING IMPROVEMENT OF A NEW SCHIFF BASE DERIVED CO (II) COMPLEX IN RATS

SCIENTIFIC REPORTS

2016 JOURNAL WOS CO-AUTHOR

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

JOURNAL OF SCIENTIFIC RESEARCH AND DEVELOPMENT

2016 JOURNAL WOS MAIN AUTHOR

## 32. THE PHOTOCHEMISTRY OF CR(CO)<sub>6</sub> IN HIGH PRESSURE LOW TEMPERATURE POLYMER MATRIX MONITORED BY FOURIER TRANSFORM INFRARED AND UV-VIS SPECTROSCOPY

JURNAL TEKNOLOGI

2016 JOURNAL SCOPUS MAIN AUTHOR

## 33. SYNTHESIS AND CYTOTOXIC ACTIVITY OF 6-HYDROXY-4-METHYL-5, 7-(BIS-PHENYLAZO) COUMARIN WITH DIVALENT TRANSITION METAL IONS

INDIAN JOURNAL OF SCIENCE AND TECHNOLOGY

2016 JOURNAL SCOPUS CO-AUTHOR

## 34. CHEMISTRY OF FOOD, HEALTH AND TECHNOLOGY IN ISLAMIC CITATIONS

2016 BOOK EDITOR

## 35. ANALYTICAL METHODS TO ANALYZE LARD IN FOOD PRODUCTS

CHEMISTRY OF FOOD, HEALTH AND TECHNOLOGY IN ISLAMIC CITATIONS

2016 CHAPTER IN BOOK MAIN AUTHOR

## 36. EVALUATION OF ANTITUMOR ACTIVITY OF COPPER COMPLEXES OF COUMARIN IN BREAST AND LUNG CANCER

MIDDLE-EAST JOURNAL OF SCIENTIFIC RESEARCH

2015 JOURNAL WOS CO-AUTHOR

## 37. THE PHOTOCHEMISTRY OF CR(CO)<sub>6</sub> 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

## 38. 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

## 39. EVALUATION OF ANTITUMOR ACTIVITY OF COPPER COMPLEXES OF COUMARIN IN BREAST AND LUNG CANCER

INTERNATIONAL CONFERENCE ON HEALTH AND LIFE SCIENCES RESEARCH

2015 PROCEEDING NON-INDEX CO-AUTHOR

# PUBLICATION

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## 40. SYNTHESIS AND CHARACTERIZATION 6-HYDROXY-4-METHYL-5-PHENYL AZO COUMARINS WITH DIVALENT TRANSITION METAL IONS

JOURNAL OF APPLIED CHEMISTRY

2014 JOURNAL SCOPUS CO-AUTHOR

## 41. 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

## 42. SYNTHESIS, CHARACTERIZATION AND CYTOTOXIC ACTIVITY OF 6-HYDROXY- 4-METHYL 7- (BIS-P-CHLORO PHENYL AZO) COUMARIN

EKSPO INOVASI ISLAM 2014

2014 PROCEEDING NON-INDEX CO-AUTHOR

## 43. SYNTHESIS, CHARACTERIZATION AND X-RAY STRUCTURE OF SCHIFF BASES DERIVED FROM 4-DIMETHYLAMINO BENZALDEHYDE WITH SOME AMINO ACIDS AND 4-AMINOANTIPYRINE

POSTGRADUATE COLLOQUIUM FST 2014

2014 PROCEEDING NON-INDEX CO-AUTHOR

## 44. SYNTHESIS, CHARACTERIZATION AND CYTOTOXIC ACTIVITY OF 6-HYDROXY- 4-METHYL -5 ,7- (BIS-P-CHLOROPHENYL AZO) COUMARIN WITH DIVALENT TRANSITION METAL IONS

POSTGRADUATE COLLOQUIUM FST 2014

2014 PROCEEDING NON-INDEX CO-AUTHOR

## 45. IHRAM-USUM & S EXPERIENCES IN ESTABLISHING PROFESSIONAL HALAL ANALYST PROGRAM: TRAINING AND SERVICES FOR HALAL RELATED INDUSTRIES

PIONEERING ISLAMIC SCIENCE SPEARHEADING KNOWLEDGE

2014 CHAPTER IN BOOK CO-AUTHOR

## 46. QUANTIFICATION OF AMORPHOUS CIMETIDINE USING FT-RAMAN SPECTROSCOPY

PIONEERING ISLAMIC SCIENCE SPEARHEADING KNOWLEDGE

2014 CHAPTER IN BOOK MAIN AUTHOR

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

SEMINAR HASIL PENELITIAN, KPT

2013 PROCEEDING NON-INDEX MAIN AUTHOR

## 48. PHYSIOCOCHEMICAL CHARACTERISTICS OF MONTMORILLONITE K-10 MODIFIED BY CO(II) AND ALUMINA PILLARING

2013 BOOK EDITOR

## 49. SYTHESIS ADN CHARACTERIZATION OF MOLYBDENUM COMPLEX IMMOBILIZED ON MONTMORILLONITE

2013 BOOK EDITOR

## 50. CHARACTERIZATION OF MONTMORILLONITE K-10 MODIFIED BY FE3+ ADN ALUMINA PILLARING

2013 BOOK EDITOR

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

PROFESSIONAL HALAL ANALYST MODULE

2013 CHAPTER IN BOOK MAIN AUTHOR

## 52. THE PHOTOCHEMISTRY OF METAL CARBONYL USING MATRIX ISOLATION TECHNIQUE

FUNDAMENTAL SCIENCE CONGRESS 2012

2012 PROCEEDING NON-INDEX MAIN AUTHOR

# PUBLICATION

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## 53. CHARACTERISTICS OF MONTMORILLONITE NANOCCLAY DOPED WITH TRANSITION METAL IONS.

2012 BOOK EDITOR

## 54. FUNCTIONALIZATION OF MONTMORILLONITE WITH TRANSITION METAL PARTICLES (IRON, COBALT, AND PLATINUM)

2012 BOOK EDITOR

## 55. DETECTION OF LOW LEVELS OF AMORPHOUS MATERIALS USING H/D EXCHANGE, FT-RAMAN AND FT-INFRARED SPECTROSCOPY.

38TH ANNUAL MEETING AND EXPOSITION OF THE CONTROLLED RELEASE SOCIETY

2011 PROCEEDING NON-INDEX CO-AUTHOR

## 56. SYNTHESIS AND FTIR SPECTROSCOPIC METHOD OF INDOMETHACIN CRYSTAL FORMS.

2011 BOOK EDITOR

## 57. DIVALENT METAL COMPLEXES OF INDOMETHACIN: SYNTHESIS AND THEIR FTIR CHARACTERISTIC (M = CU AND ZN)

2011 BOOK EDITOR

## 58. SYNTHESIS AND FTIR STUDY OF DIVALENT METAL (M = CO, CU AND CD) SALT COMPLEXES OF INDOMETHACIN

2011 BOOK EDITOR

## 59. ISLAM PEMANGKIN SAINS DAN TEKNOLOGI.

ISLAM HADHARI DAN KEHIDUPAN.

2006 CHAPTER IN BOOK MAIN AUTHOR

## 60. KEMANTAPAN ILMU MENCORAK GENERASI MUDA.

ISLAM HADHARI DAN KEHIDUPAN

2006 CHAPTER IN BOOK CO-AUTHOR

## 61. PENCIRIAN BAHAN MESOPOROS MCM-41 YANG DIMODIFIKASIKAN DENGAN TITANIUM.

THE MALYSIAN JOURNAL OF ANALYTICAL SCIENCES

2005 JOURNAL WOS MAIN AUTHOR

## 62. PENCIRIAN SIFAT KIMIA DAN FIZIKAL SEBATIAN MESOPOROSTI-ZEOLIT TERNYAHLAMINA (TI-ITQ-6)

THE MALYSIAN JOURNAL OF ANALYTICAL SCIENCES

2005 JOURNAL WOS CO-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

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## 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

## 6. ACADEMIC ADVISOR

KPJ HEALTHCARE UNIVERSITY COLLEGE

2018 NATIONAL

## 7. ACADEMIC ADVISOR

UNIVERSITI TEKNOLOGI MARA (UITM)

2017 NATIONAL

## 8. PROFESSIONAL HALAL TRAINING PROGRAMME

THE INTERNATIONAL CONFERENCE AND EXPOSITION ON INVENTION (PECIPTA 17)

2017 UNIVERSITI SILVER

## 9. PROFESSIONAL HALAL ANALYST PROGRAM (PHAP) (KATEGORI TERBUKA)

EKSPO INOVASI ISLAM KALI KE-ENAM 2015 (I-INOVA 2015)

2015 ANTARABANGSA SILVER

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

MALAYSIAN RESEARCH CONFERENCE AND INNOVATION EXHIBITION 2015 (MRCIE) 2015

2015 KEBANGSAAN BEST PAPER AWARD

## 11. SYNTHESIS, CHARACTERIZATION AND CYTOTOXIC ACTIVITY OF 6-HYDROXY-4-METHYL 7-

EKSPO INOVASI ISLAM I-INOVA 2014

2014 KEBANGSAAN BRONZE