



**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. ELUCIDATING THE STRUCTURE?ACTIVITY RELATIONSHIP
OF IRON-IMPREGNATED COFFEE GROUND ASH IN
BIFUNCTIONAL CATALYSIS OF WASTE FRYING OIL**

2026 GERAN PENYELIDIKAN FUNDAMENTAL ON GOING MAIN RESEARCHER

**2. 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

**3. 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

**4. ZRO₂-FE₃O₄ AS A NANO-MAGNETIC BIFUNCTIONAL
CATALYST FOR BIODIESEL PRODUCTION FROM WASTE
COOKING OIL**

2022 GERAN PENYELIDIKAN USIM ON GOING CO-RESEARCHER

5. 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

RESEARCH

6. 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

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

2017 GERAN PENYELIDIKAN AGENSI KERAJAAN COMPLETED CO-RESEARCHER

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

2017 GERAN ANTARABANGSA COMPLETED CO-RESEARCHER

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

2017 GERAN KPT COMPLETED MAIN RESEARCHER

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

2016 GERAN KPT COMPLETED CO-RESEARCHER

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

2016 GERAN PENYELIDIKAN TRANSLASIONAL COMPLETED CO-RESEARCHER

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

2016 GERAN PENYELIDIKAN TRANSLASIONAL COMPLETED MAIN RESEARCHER

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

2015 GERAN KPT COMPLETED CO-RESEARCHER

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

2012 GERAN KPT COMPLETED CO-RESEARCHER

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

2012 GERAN KPT COMPLETED CO-RESEARCHER

16. PROFESSIONAL HALAL ANALYST PROGRAM

2012 GERAN KPT COMPLETED CO-RESEARCHER

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

2012 GERAN PENYELIDIKAN PENTADBIR COMPLETED CO-RESEARCHER

18. NEW ACTIVATED BIOCATALYST IN THIN FILM OF CELLULOSE DERIVATIVE

2012 GERAN PENYELIDIKAN USIM COMPLETED CO-RESEARCHER

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

2012 GERAN KPT COMPLETED MAIN RESEARCHER

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

2012 GERAN PENYELIDIKAN USIM COMPLETED MAIN RESEARCHER

21. 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

RESEARCH

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

2011 GERAN PENYELIDIKAN FUNDAMENTAL COMPLETED CO-RESEARCHER

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

2011 GERAN PENYELIDIKAN FUNDAMENTAL COMPLETED MAIN RESEARCHER

PUBLICATION

1. CATALYTIC TRANSESTERIFICATION OF WASTE COOKING OIL USING FE-MODIFIED CHICKEN BONE CATALYST: CHARACTERIZATION AND OPTIMIZATION

SAINS MALAYSIANA

2025 JOURNAL INDEXED BY ISI AND SCOPUS CORRESPONDING AUTHOR

2. INFRARED SPECTROSCOPY-BASED PRINCIPAL COMPONENT ANALYSIS FOR DIFFERENTIATION OF SOAPS PRODUCED FROM VEGETABLE OILS AND ANIMAL FATS

MALAYSIAN JOURNAL OF CHEMISTRY

2024 JOURNAL OTHER DATABASE CO-AUTHOR

3. DEVELOPMENT OF CA²⁺ AND FE³⁺ 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

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

APS PROCEEDINGS

2024 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

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

RSC ADVANCES

2023 JOURNAL ISI CO-AUTHOR

6. 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

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

MALAYSIAN JOURNAL OF ANALYTICAL SCIENCES

2022 JOURNAL SCOPUS CO-AUTHOR

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

MATERIALS SCIENCE FORUM

2022 JOURNAL ERA CO-AUTHOR

9. 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

10. 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

11. MODIFICATION OF KAOLINITE CLAY USING BENZYLTRIEHYLAMMONIUM CHLORIDE AS A SURFACTANT: PREPARATION AND CHARACTERIZATION

INTERNATIONAL JOURNAL OF ENGINEERING AND TECHNOLOGY(UAE)

2020 JOURNAL SCOPUS CO-AUTHOR

12. MODIFICATION OF KAOLINITE CLAY USING BENZYLTRIEHYLAMMONIUM CHLORIDE AS A SURFACTANT: PREPARATION AND CHARACTERIZATION

INTERNATIONAL JOURNAL OF ENGINEERING & TECHNOLOGY

2020 JOURNAL OTHER DATABASE CO-AUTHOR

13. OPTIMIZATION OF MONTMORILLONITE K10 ION-EXCHANGE WITH FE³⁺ FOR THE APPLICATION OF BIODIESEL PRODUCTION

MALAYSIAN JOURNAL OF ANALYTICAL SCIENCES

2020 JOURNAL SCOPUS CORRESPONDING AUTHOR

PUBLICATION

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

RENEWABLE ENERGY

2020 JOURNAL ERA CORRESPONDING AUTHOR

15. NAKED EYE CHEMOSENSING OF ANIONS BY SCHIFF BASES

CRITICAL REVIEWS IN ANALYTICAL CHEMISTRY

2020 JOURNAL ERA CO-AUTHOR

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

MATERIALS TODAY: PROCEEDINGS

2019 JOURNAL SCOPUS AND ERA MAIN AUTHOR

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

MATERIALS SCIENCE FORUM

2019 JOURNAL ERA CO-AUTHOR

18. 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

19. MODIFICATION OF MONTMORILLONITE K10 WITH AL³⁺ AND ITS POTENTIAL IN BIODIESEL PRODUCTION

MALAYSIAN JOURNAL OF SCIENCE, HEALTH & TECHNOLOGY

2019 JOURNAL OTHER DATABASE MAIN AUTHOR

20. 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

21. ANALYTICAL CHEMISTRY IN HALAL AND TOYYIB IDENTIFICATION

2019 BOOK CO-AUTHOR

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

AIP CONFERENCE PROCEEDINGS

2018 JOURNAL SCOPUS CO-AUTHOR

23. 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

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

POLYMERS FOR ADVANCED TECHNOLOGIES

2018 JOURNAL WOS CO-AUTHOR

25. 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

26. 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

PUBLICATION

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

MALAYSIAN JOURNAL OF SCIENCE HEALTH & TECHNOLOGY

2018 JOURNAL OTHER DATABASE MAIN AUTHOR

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

2018 BOOK CO-AUTHOR

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

2018 BOOK CO-EDITOR

30. 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

31. SYNTHESIS, CHARACTERIZATION AND ANTIBACTERIAL ACTIVITY OF SCHIFF BASES DERIVED FROM 4-DIMETHYLAMINO BENZALDEHYDE WITH SOME AMINO ACIDS AND 4-AMINOANTIPYRINE TOWARD CU(II), NI(II), CO(II), CD(II) AND MN(II) IONS

IOSR JOURNAL OF APPLIED CHEMISTRY

2017 JOURNAL OTHER DATABASE CO-AUTHOR

32. 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

33. SYNTHESIS AND BIOLOGICAL EVALUATION OF 6-HYDROXY-4-METHYL-5,7-(BIS-P-CHLOROPHENYL AZO) COUMARIN

AMERICAN JOURNAL OF APPLIED SCIENCES

2016 JOURNAL SCOPUS CO-AUTHOR

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

INTERNATIONAL JOURNAL OF APPLIED CHEMISTRY

2016 JOURNAL SCOPUS MAIN AUTHOR

35. 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

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

JOURNAL OF SCIENTIFIC RESEARCH AND DEVELOPMENT

2016 JOURNAL WOS MAIN AUTHOR

37. 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

38. SYNTHESIS AND CYTOTOXIC ACTIVITY OF 6-HYDROXY-4-METHYL-5, 7-(BIS-PHENYL AZO) COUMARIN WITH DIVALENT TRANSITION METAL IONS

INDIAN JOURNAL OF SCIENCE AND TECHNOLOGY

2016 JOURNAL SCOPUS CO-AUTHOR

39. CHEMISTRY OF FOOD, HEALTH AND TECHNOLOGY IN ISLAMIC CITATIONS

2016 BOOK EDITOR

PUBLICATION

40. ANALYTICAL METHODS TO ANALYZE LARD IN FOOD PRODUCTS

CHEMISTRY OF FOOD, HEALTH AND TECHNOLOGY IN ISLAMIC CITATIONS

2016 CHAPTER IN BOOK MAIN AUTHOR

41. 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

42. CYTOTOXIC ACTIVITY OF COUMARIN DERIVATIVES AND THEIR COMPLEXES

INTERNATIONAL JOURNAL OF RESEARCH

2015 JOURNAL OTHER DATABASE CO-AUTHOR

43. HYDROGEN ADSORPTION ON AGRICULTURAL-BASED ACTIVATED CARBONS, ZEOLITE TEMPLATED-CARBONS AND CLAY-BASED MATERIALS: A REVIEW

JOURNAL OF INDUSTRIAL ENGINEERING RESEARCH

2015 JOURNAL OTHER DATABASE CO-AUTHOR

44. PREPARATION AND PHYSICOCHEMICAL PROPERTIES OF METAL COMPLEXES IMMOBILIZED ON MONTMORILLONITE K10 (MMT K10)

JOURNAL OF INDUSTRIAL ENGINEERING RESEARCH

2015 JOURNAL OTHER DATABASE CO-AUTHOR

45. 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

46. 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

47. 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

48. 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

49. NEW TRANSITION METAL COMPLEXES OF AZOCOUMARIN

INTERNATIONAL JOURNAL OF CHEMICAL AND ENVIRONMENTAL ENGINEERING

2014 JOURNAL OTHER DATABASE CO-AUTHOR

50. 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

51. 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

52. 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

PUBLICATION

53. 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

54. IHRAM-USIM'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

55. QUANTIFICATION OF AMORPHOUS CIMETIDINE USING FT-RAMAN SPECTROSCOPY

PIONEERING ISLAMIC SCIENCE SPEARHEADING KNOWLEDGE

2014 CHAPTER IN BOOK MAIN AUTHOR

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

SEMINAR HASIL PENYELIDIKAN, KPT

2013 PROCEEDING NON-INDEX MAIN AUTHOR

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

2013 BOOK EDITOR

58. SYTHESIS ADN CHARACTERIZATION OF MOLYBDENUM COMPLEX IMMOBILIZED ON MONTMORILLONITE

2013 BOOK EDITOR

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

2013 BOOK EDITOR

60. BASICS OF FOURIER TRANSFORM INFRA RED SPECTROCOPY AND ITS SAMPLE PREPARATION

PROFESSIONAL HALAL ANALYST MODULE

2013 CHAPTER IN BOOK MAIN AUTHOR

61. THE PHOTOCHEMISTRY OF METAL CARBONYL USING MATRIX ISOLATION TECHNIQUE

FUNDAMENTAL SCIENCE CONGRESS 2012

2012 PROCEEDING NON-INDEX MAIN AUTHOR

62. CHARACTERISTICS OF MONTMORILLONITE NANOCCLAY DOPED WITH TRANSITION METAL IONS.

2012 BOOK EDITOR

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

2012 BOOK EDITOR

64. 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

65. SYNTHESIS AND FTIR SPECTROSCOPIC METHOD OF INDOMETHACIN CRYSTAL FORMS.

2011 BOOK EDITOR

PUBLICATION

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

2011

BOOK

EDITOR

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

2011

BOOK

EDITOR

68. ISLAM PEMANGKIN SAINS DAN TEKNOLOGI.

ISLAM HADHARI DAN KEHIDUPAN.

2006

CHAPTER IN BOOK

MAIN AUTHOR

69. KEMANTAPAN ILMU MENCORAK GENERASI MUDA.

ISLAM HADHARI DAN KEHIDUPAN

2006

CHAPTER IN BOOK

CO-AUTHOR

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

THE MALAYSIAN JOURNAL OF ANALYTICAL SCIENCES

2005

JOURNAL

WOS

MAIN AUTHOR

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

THE MALAYSIAN 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

1. ANUGERAH PENTADBIR CEMERLANG

2025 OTHERS

2. ANUGERAH PENERBITAN JURNAL BERINDEKS WOS/SCOPUS/MYCITE

2025 OTHERS

3. ANUGERAH REKABENTUK INOVASI PENGAJARAN DAN PEMBELAJARAN

2025 UNIVERSITY

4. VISITING PROFESOR

UNIVERSITAS MUSLIM INDONESIA

2025 INTERNATIONAL

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

INNOVATION BANK CHALLENGE 2025

2025 ANTARABANGSA SILVER

6. TURNING RICE HUSK WASTE INTO AFFORDABLE ADSORBENTS FOR REMOVING BISPHENOL A FROM WATER

INNOVATION BANK CHALLENGE 2025

2025 ANTARABANGSA BRONZE

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

VIRTUAL INNOVATION COMPETITION 2024

2024 ANTARABANGSA BRONZE

8. ACADEMIC ADVISOR

DARUL QURAN JAKIM

2020 NATIONAL

9. ACADEMIC ADVISOR

UNIVERSITI KEBANGSAAN MALAYSIA

2019 NATIONAL

10. ACADEMIC ADVISOR

UNIVERSITI TEKNOLOGI MARA (UITM)

2019 NATIONAL

11. ACADEMIC ADVISOR

KPJ HEALTHCARE UNIVERSITY COLLAGE

2019 NATIONAL

12. ACADEMIC ADVISOR

KPJ HEALTHCARE UNIVERSITY COLLEGE

2018 NATIONAL

13. ACADEMIC ADVISOR

UNIVERSITI TEKNOLOGI MARA (UITM)

2017 NATIONAL

14. PROFESSIONAL HALAL TRAINING PROGRAMME

THE INTERNATIONAL CONFERENCE AND EXPOSITION ON INVENTION (PECIPTA 17)

2017 UNIVERSITY SILVER

AWARDS/RECOGNITION

15. PROFESSIONAL HALAL ANALYST PROGRAM (PHAP) (KATEGORI TERBUKA)

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

2015

ANTARABANGSA

SILVER

16. 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

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

EKSPO INOVASI ISLAM I-INOVA 2014

2014

KEBANGSAAN

BRONZE