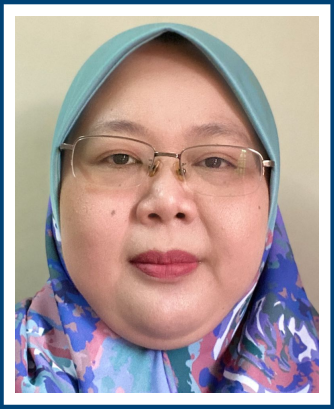


PROF. MADYA DR. AZWANI SOFIA BINTI AHMAD KHIAR

PENSYARAH UNIVERSITI DS14

CONTACT

PHONE

06-798 6541

E-MAIL

azwanisofia@usim.edu.my

FACULTY

Fakulti Sains Dan Teknologi

SUPERVISION

	COMPLETED	ONGOING
PhD	0	0
Master	4	2

AREAS OF EXPERTISE

- Solid State And Polymer Electrolyte Physics
- Polymer Electrolytes
- Electrolytes For Batteries

ACADEMIC QUALIFICATION

2006 **PhD** - Bahan Termaju

2002 **Bachelor** - Fizik Komputer Dan Elektronik

RESEARCH

1. **ENHANCING IONIC CONDUCTING PROPERTIES OF 2HYDROXYETHYL CELLULOSE-BASED POLYMERS VIA AMMONIUM FORMATE DOPING PROCESS FOR ENERGY STORAGE APPLICATION**
   2023 | GERAN PENYELIDIKAN PENTADBIR | ON GOING | CO-RESEARCHER

2. **TRANSPORT PROPERTIES OF CELLULOSE DERIVATIES BASED POLYMER ELECTROLYTE DOPED WITH IONIC LIQUIDS USING SPECTROSCOPY METHODS**
   2023 | GERAN KPT | ON GOING | MAIN RESEARCHER

3. **STRUCTURAL AND ELECTRICAL PROPERTIES OF SI/ZNO/C AND SI/ZN/C NANOSTRUCTURE COMPOSITES AS ANODE USING HOT TUBE THERMAL EVAPORATION SYSTEM FOR HIGH CAPACITY BATTERIES**
   2021 | GERAN PENYELIDIKAN USIM | ON GOING | CO-RESEARCHER

4. **INVESTIGATION OF TRI-MODALITY IMAGE REGISTRATION FOR NAVIGATING CARDIOVASCULAR DISEASE TREATMENT PROCEDURE**
   2019 | GERAN PENYELIDIKAN USIM | COMPLETED | CO-RESEARCHER

5. **IMMITTANCE RESPONSES AND IONIC CONDUCTION MECHANISM STUDIES OF ENHANCED CMC SOLID BIOPOLYMER ELECTROLYTES VIA FTIR DECONVOLUTION APPROACH**
   2019 | GERAN PENYELIDIKAN USIM | COMPLETED | CO-RESEARCHER

RESEARCH

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

2016 | GERAN KPT | COMPLETED | MAIN RESEARCHER

7. CHARACTERIZATION OF DEEP EUTETIC SOLVENT (DES) - DOPED CHITOSAN BASED POLYMER ELECTROLYTE FRO SOLAR CELL APPLICATION

2013 | GERAN PENYELIDIKAN USIM | COMPLETED | MAIN RESEARCHER

8. ELECTRICAL STUDIES OF LAUROYL-CHITOSAN BLEND POLYMER ELECTROLYTES FOR APPLICATION IN LITHIUM BATTERY

2012 | GERAN KPT | COMPLETED | MAIN RESEARCHER

9. CARBON NANOTUBE AS ELECTRODE MATERIAL FOR HIGH PERFORMANCE ELECTROCHEMICAL DOUBLE LAYER CAPACITORS (EDLC) WITH HYBRID SOLID POLYMER ELECTROLYTE (HSPE).

2011 | GERAN KPT | COMPLETED | CO-RESEARCHER

10. 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

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

2011 | GERAN PENYELIDIKAN FUNDAMENTAL | COMPLETED | CO-RESEARCHER

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

2011 | GERAN PENYELIDIKAN FUNDAMENTAL | COMPLETED | CO-RESEARCHER

13. KEMAHIRAN INSANIAH DI KALANGAN "ISLAMIC GENIUS"

2010 | GERAN KPT | COMPLETED | CO-RESEARCHER

14. THE STUDY OF CELLULOSE-BASED HYBRID SOLID POLYMER ELECTROLYTES

2010 | GERAN KPT | COMPLETED | CO-RESEARCHER

15. STUDY ON BIOLOGICAL OF ESSENTIAL OIL FROM CYMBOPOGON SP.

2009 | GERAN PENYELIDIKAN FUNDAMENTAL | COMPLETED | CO-RESEARCHER

16. THE STUDY OF SOLID POLYMER ELECTROLYTES FROM BIOPOLYMERS

2008 | GERAN KPT | COMPLETED | MAIN RESEARCHER

17. DEVELOPMENT OF SOLID ELECTROLYTES USING NATURAL POLYMERS

2007 | GERAN PENYELIDIKAN FUNDAMENTAL | COMPLETED | MAIN RESEARCHER

PUBLICATION

1. THE EFFECT OF NH4BR COMPOSITION ON ELECTRICAL BEHAVIOUR OF 2-HYDROXYETHYL CELLULOSE SOLID BIOPOLYMER ELECTROLYTES

JOURNAL OF ADVANCED RESEARCH IN FLUID MECHANICS AND THERMAL SCIENCES

2025 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

2. SYNTHESIS AND CHARACTERIZATION OF ANODIC ALUMINA OXIDE USING OXALIC ACID AS ELECTROLYTE SOLUTION

APPLIED MECHANICS AND MATERIALS

2025 JOURNAL OTHER DATABASE CO-AUTHOR

3. EFFECT OF DYE EXTRACTION FROM MANGOSTEEN PERICARP WITH DIFFERENT EXTRACTION SOLVENTS FOR DSSC FABRICATION OF DYE EXTRACTION FROM MANGOSTEEN PERICARP WITH DIFFERENT EXTRACTION SOLVENTS FOR DSSC FABRICATION

APPLIED MECHANICS AND MATERIALS

2025 JOURNAL SCOPUS CO-AUTHOR

4. PREPARATION AND CHARACTERIZATION OF RICE HUSK BIOCHAR-BASED CHEMICAL ACTIVATED CARBON IN VARYING PARTICLE SIZE

KARYA INTERNATIONAL JOURNAL OF BIOFUEL AND BIOENERGY

2025 JOURNAL MYCITE CORRESPONDING AUTHOR

5. DEVELOPMENT OF CELLULOSE-BASED FILMS CONTAINING SALICYLIC ACID FOR WOUND DRESSING APPLICATIONS: FABRICATION, PROPERTIES AND IN VITRO ASSESSMENT

JOURNAL OF BIOACTIVE AND COMPATIBLE POLYMERS

2024 JOURNAL ERA CO-AUTHOR

6. OPTIMIZATION OF METHYL CELLULOSE BIOPOLYMER ELECTROLYTE CONDUCTIVITY VIA RESPONSE SURFACE METHODOLOGY

NEXT MATERIALS

2024 JOURNAL OTHER DATABASE CO-AUTHOR

7. SYNTHESIS OF OXANORBORNENE-BASED PHOSPHONIUM POLYMERIC IONIC LIQUIDS (PILS) AND INVESTIGATION OF THEIR ELECTRICAL PROPERTIES

MATERIALS ADVANCES

2024 JOURNAL OTHER DATABASE CO-AUTHOR

8. STRUCTURAL AND ELECTROCHEMICAL PROPERTIES OF BINARY ZNO:AL NANOCOMPOSITES AS ANODE FOR LITHIUM-ION BATTERIES

MALAYSIAN JOURNAL OF SCIENCE HEALTH & TECHNOLOGY

2024 JOURNAL OTHER DATABASE CO-AUTHOR

9. POLYURETHANE-BASED POLYMER ELECTROLYTE FOR LITHIUM ION BATTERIES: A REVIEW

POLYMER INTERNATIONAL

2022 JOURNAL ERA CO-AUTHOR

PUBLICATION

10. CONDUCTION MECHANISM OF CHITOSAN/METHYLCELLULOSE/1-BUTYL-3 METHYL IMIDAZOLIUM BIS (TRIFLUOROMETHYLSULFONYL) IMIDE (BMIMTFSI) BIOPOLYMER ELECTROLYTE DOPED WITH AMMONIUM TRIFLATE

MALAYSIAN JOURNAL OF CHEMISTRY

2020 JOURNAL SCOPUS MAIN AUTHOR / CONTACT PERSON IN USIM

11. STRUCTURAL STUDIES AND IONIC TRANSPORT PROPERTIES OF SOLID BIOPOLYMER ELECTROLYTES BASED ON CHITOSAN/ METHYL CELLULOSE BLEND DOPED WITH BMIMTFSI

SOLID STATE PHENOMENA

2020 JOURNAL SCOPUS MAIN AUTHOR / CONTACT PERSON IN USIM

12. THE EFFECT OF MICROCRYSTALLINE CELLULOSE (MCC) ON COATING PAINT FILM?S SURFACE PERFORMANCE AS NON-STICK COATING

PIGMENT & RESIN TECHNOLOGY

2020 JOURNAL ISI MAIN AUTHOR / CONTACT PERSON IN USIM

13. EFFECT OF IONIC LIQUID BMIMNO3 TO CHITOSAN-STARCH BLEND BIOPOLYMER ELECTROLYTE SYSTEM

SOLID STATE PHENOMENA

2019 JOURNAL SCOPUS CO-AUTHOR

14. CHARACTERIZATION OF CHITOSAN-STARCH BLEND BASED BIOPOLYMER ELECTROLYTE DOPED WITH AMMONIUM NITRATE

AIP CONFERENCE PROCEEDINGS

2018 JOURNAL SCOPUS CO-AUTHOR

15. EFFECT OF BMITFSI TO THE ELECTRICAL PROPERTIES OF CHITOSAN/METHYLCELLULOSE BASED POLYMER ELECTROLYTE

AIP CONFERENCE PROCEEDINGS

2018 JOURNAL SCOPUS MAIN AUTHOR

16. ELECTRICAL AND STRUCTURAL STUDIES OF POLYMER ELECTROLYTE BASED ON CHITOSAN/METHYL CELLULOSE BLEND DOPED WITH BMIMTFSI

MATERIALS RESEARCH EXPRESS

2018 JOURNAL SCI CO-AUTHOR

17. CONDUCTIVITY, DIELECTRIC AND MODULUS STUDY OF CHITOSAN-METHYL CELLULOSE ? BMIMTFSI POLYMER ELECTROLYTE DOPED WITH CELLULOSE NANO CRYSTAL

AIP CONFERENCE PROCEEDINGS

2018 JOURNAL SCOPUS CO-AUTHOR

18. CONDUCTIVITY, DIELECTRIC AND MODULUS STUDIES OF METHYLCELLULOSE-NH4TF POLYMER ELECTROLYTE

EURASIAN JOURNAL OF BIOLOGICAL AND CHEMICAL SCIENCES

2018 JOURNAL OTHER DATABASE MAIN AUTHOR

19. CONDUCTIVITY STUDIES OF METHYL CELLULOSE/CHITOSAN/1-BUTYL-3-METHYL IMIDAZOLIUM BIS(TRIFLUORO SULFONYL) IMIDE DOPED WITH AMMONIUM TRIFLATE BASED POLYMER ELECTROLYTE

19TH WORLD CONGRESS ON MATERIALS SCIENCE AND ENGINEERING

2018 PROCEEDING NON-INDEX MAIN AUTHOR

PUBLICATION

20. ELECTRICAL CONDUCTIVITY OF BIOBASED SHAPE MEMORY POLYURETHANE FILLED WITH CNT

MATERIALS SCIENCE FORUM

2017 JOURNAL SCOPUS CO-AUTHOR

21. COLOR STABILITY AND CORROSION RESISTIVITY OF NATURAL DYE COATING PAINT FILM CONSISTING OF CURCUMIN

ADVANCED SCIENCE LETTERS

2017 JOURNAL SCOPUS MAIN AUTHOR

22. EFFECT OF 1-ETHYL-3-METHYLIMIDAZOLIUM NITRATE ON THE ELECTRICAL PROPERTIES OF STARCH/CHITOSAN BLEND POLYMER ELECTROLYTE

MATERIALS SCIENCE FORUM

2016 JOURNAL SCOPUS MAIN AUTHOR

23. ELECTRICAL PROPERTIES OF STARCH/PEO BLEND POLYMER ELECTROLYTES.

APPLIED MECHANICS AND MATERIALS

2015 JOURNAL SCOPUS MAIN AUTHOR

24. ELECTRICAL PROPERTY OF METHYLCELLULOSE/CHITOSAN-NH4NO3-EC PLASTICIZED POLYMER ELECTROLYTE

APPLIED MECHANICS AND MATERIALS

2015 JOURNAL SCOPUS MAIN AUTHOR

25. EFFECT OF BMITFSI TO THE ELECTRICAL PROPERTIES OF METHYLCELLULOSE/CHITOSAN/NH4TF BASED POLYMER ELECTROLYTE

SPIE MICRO+NANO MATERIALS, DEVICES, AND SYSTEMS

2015 PROCEEDING NON-INDEX MAIN AUTHOR

26. EFFECT OF LICF3SO3 ON L-CHITOSAN/PMMA BLEND POLYMER ELECTROLYTES

MOLECULAR CRYSTALS AND LIQUID CRYSTALS

2014 JOURNAL SCI MAIN AUTHOR

27. CONDUCTIVITY AND DIELECTRIC STUDIES OF METHYLCELLULOSE/CHITOSAN-NH4CF3SO3 POLYMER ELECTROLYTE

KEY ENGINEERING MATERIALS

2014 JOURNAL SCOPUS MAIN AUTHOR

28. CONDUCTIVITY AND DIELECTRIC BEHAVIOUR STUDIES OF LICF3SO3 DISSOCIATION IN L-CHITOSAN/PMMA-BASED POLYMER ELECTROLYTES.

MALAYSIAN JOURNAL OF FUNDAMENTAL AND APPLIED SCIENCES

2013 JOURNAL OTHER DATABASE MAIN AUTHOR

29. CONDUCTIVITY AND DIELECTRIC BEHAVIOUR STUDIES OF LICF3SO3 DISSOCIATION IN L-CHITOSAN/PMMA-BASED POLYMER ELECTROLYTES

REGIONAL ANNUAL FUNDAMENTAL SCIENCE SYMPOSIUM 2012

2012 PROCEEDING NON-INDEX MAIN AUTHOR

PUBLICATION

30. SUPERCAPACITOR BASED ON ACTIVATED CARBON AND HYBRID SOLID POLYMER ELECTROLYTE

MATERIALS RESEARCH INNOVATIONS

2011 JOURNAL WOS CO-AUTHOR

31. CONDUCTIVITY AND DIELECTRIC BEHAVIOR STUDIES OF STARCH/PEO + X WT% NH4NO3 POLYMER ELECTROLYTE

MATERIALS RESEARCH INNOVATIONS

2011 JOURNAL WOS MAIN AUTHOR

32. ELECTRICAL PROPERTIES OF STARCH/CHITOSAN-NH4NO3 POLYMER ELECTROLYTE

WORLD ACADEMY OF SCIENCE, ENGINEERING AND TECHNOLOGY

2011 JOURNAL OTHER DATABASE MAIN AUTHOR

33. TRANSPORT AND AC IMPEDANCE STUDIES OF PLASTICIZED-CHITOSAN BASED POLYMER ELECTROLYTES

INDONESIAN JOURNAL OF PHYSICS

2011 JOURNAL OTHER DATABASE MAIN AUTHOR

34. CONDUCTIVITY STUDIES OF STARCH-BASED POLYMER ELECTROLYTES

IONICS

2010 JOURNAL WOS MAIN AUTHOR

35. CONDUCTIVITY AND DIELECTRIC BEHAVIOR STUDIES OF STARCH/PEO + X WT% NH4NO3 POLYMER ELECTROLYTE

3RD INTERNATIONAL CONFERENCE ON FUNCTIONAL MATERIALS AND DEVICES, 2010 (ICFMD 2010)

2010 PROCEEDING NON-INDEX MAIN AUTHOR

36. SUPERCAPACITOR BASED ON ACTIVATED CARBON AND HYBRID SOLID POLYMER ELECTROLYTE

3RD INTERNATIONAL CONFERENCE ON FUNCTIONAL MATERIALS AND DEVICES, 2010 (ICFMD 2010)

2010 PROCEEDING NON-INDEX CO-AUTHOR

37. NATURAL POLYMERS: ALTERNATIVE RESOURCES FOR THE DEVELOPMENT OF POLYMER ELECTROLYTES.

TWAS YOUNG SCIENTISTS OF ASIA CONCLAVE: PRESSING PROBLEMS OF HUMANKIND: ENERGY & CLIMATE (A MEETING OF CONCERNED YOUNG SCIENTISTS))

2009 PROCEEDING NON-INDEX MAIN AUTHOR

38. EFFECT OF STARCH/CHITOSAN BLEND TO THE PERFORMANCE ON A SOLID STATE CELL

17TH INTERNATIONAL CONFERENCE ON SOLID STATE IONICS

2009 PROCEEDING NON-INDEX MAIN AUTHOR

39. EFFECT OF ADDITIVE TO AMMONIUM NITRATE DOPED STARCH BASED POLYMER ELECTROLYTE

NATIONAL WORKSHOP ON FUNCTIONAL MATERIALS 2009

2009 PROCEEDING NON-INDEX MAIN AUTHOR

40. GREEN CHEMISTRY: CHALLENGES AND OPPORTUNITIES.

SAINS ISLAM DAN PEMBANGUNAN MODAL INSAN

2008 CHAPTER IN BOOK CO-AUTHOR

PUBLICATION

41. THE ELECTRICAL BEHAVIOR OF STARCH-BASED POLYMER ELECTROLYTES

JOURNAL OF FUDAN UNIVERSITY (NATURAL SCIENCES)

2007 JOURNAL OTHER DATABASE MAIN AUTHOR

42. THE IMPEDANCE STUDIES OF STARCH-NH4NO3 FILMS

JOURNAL OF FUDAN UNIVERSITY (NATURAL SCIENCES)

2007 JOURNAL OTHER DATABASE CO-AUTHOR

43. PLASTICIZED-CHITOSAN BASED POLYMER ELECTROLYTES.

INTERNATIONAL CONFERENCE ON ADVANCEMENT OF MATERIALS AND NANOTECHNOLOGY 2007

2007 PROCEEDING NON-INDEX MAIN AUTHOR

44. CONDUCTIVITY STUDIES OF A CHITOSAN-BASED POLYMER ELECTROLYTE.

PHYSICA B: CONDENSED MATTER

2006 JOURNAL WOS MAIN AUTHOR

45. IONIC HOPPING TRANSPORT IN CHITOSAN-BASED POLYMER ELECTROLYTES

MATERIALS SCIENCE FORUM

2006 JOURNAL SCOPUS MAIN AUTHOR

46. EFFECT OF ETHYLENE SULPHITE ON THE CONDUCTIVITY AND MORPHOLOGY OF PEO-KOH FILMS

MATERIALS SCIENCE FORUM

2006 JOURNAL SCOPUS CO-AUTHOR

47. IONIC CONDUCTIVITY OF CHITOSAN MEMBRANES AND APPLICATION FOR ELECTROCHEMICAL DEVICES

POLYMERS FOR ADVANCED TECHNOLOGIES

2006 JOURNAL WOS CO-AUTHOR

48. CHARACTERIZATIONS OF CHITOSAN-AMMONIUM TRIFLATE (NH4CF3SO3) COMPLEXES BY FTIR AND IMPEDANCE SPECTROSCOPY

PHYSICA STATUS SOLIDI A

2006 JOURNAL WOS MAIN AUTHOR

49. CONDUCTIVITY STUDIES ON CHITOSAN/PEO BLENDS WITH LITFSI SALT

IONICS

2005 JOURNAL WOS CO-AUTHOR

50. TRANSPORT STUDIES ON FILLER-DOPED CHITOSAN BASED POLYMER ELECTROLYTE

IONICS

2005 JOURNAL WOS CO-AUTHOR

51. STUDIES OF DMC-PLASTICIZED CHITOSAN-NH4CF3SO3 POLYMER ELECTROLYTE

ASIAN PHYSICS SYMPOSIUM

2005 PROCEEDING NON-INDEX CO-AUTHOR

PUBLICATION

52. ENHANCEMENT ON THE CONDUCTIVITY AND DIELECTRIC OF CHITOSAN ACETATE FILMS BY ADDITION OF H3PO4

ASIAN PHYSICS SYMPOSIUM

2005 PROCEEDING NON-INDEX CO-AUTHOR

CONSULTATION

1. PENILAIAN PEMATUHAN SYARAT-SYARAT AKREDITASI SEMENTARA DIPLOMA SAINS SECARA KERJASAMA DENGAN UITM (MQA/FA 7207)

AGENSI KELAYAKAN MALAYSIA

2020 NATIONAL

2. PANEL PENILAI AKREDITASI PENUH PROGRAM DOKTOR FALSAFAH UNIVERSITI MALAYSIA PAHANG

AGENSI KELAYAKAN MALAYSIA

2019 NATIONAL

3. PANEL PENILAI PENILAIAN PEMATUHAN AKREDITASI PENUH PROGRAM

AGENSI KELAYAKAN MALAYSIA

2019 NATIONAL

4. PENILAI PROGRAM 'DIPLOMA IN SCIENCE' SECARA KERJASAMA DENGAN UITM (MQA/FA 7207)

AGENSI KELAYAKAN MALAYSIA

2018 NATIONAL

5. PELANTIKAN SEBAGAI AUDITOR UNTUK AUDIT AKREDITASI PENUH/AUDIT VERIFIKASI PROGRAM IJAZAH SARJANA MUDA SAINS DAN IJAZAH SAINS MUDA SAINS GUNAAN DI PUSAT PENGAJIAN SAINS FIZIK, USM

UNIVERSITI SAINS MALAYSIA

2018 NATIONAL

6. PENILAI AKREDITASI PROVISIONAL PRA DIPLOMA (SAINS) SECARA KERJASAMA DENGAN UITM, KOLEJ ANTARABANGSA SAINS DAN TEKNOLOGI MELAKA (MICOST)

AGENSI KELAYAKAN MALAYSIA

2015 NATIONAL

7. PANEL PENILAI BAGI AUDIT DAN AKREDITASI PROGRAM PENGAJIAN DI UNIVERSITI KEBANGSAAN MALAYSIA

UNIVERSITI KEBANGSAAN MALAYSIA

2015 NATIONAL

8. PANEL PENILAI UNTUK PENGESAHAN FASILITI I UNIVERSITI TUNKU ABDUL RAHMAN (UTAR), KAMPUNG SG. LONG, KAJANG

AGENSI KELAYAKAN MALAYSIA (MQA)

2015 NATIONAL

CONSULTATION

9. PENILAI AKREDITASI SEMENTARA FOUNDATION IN SCIENCE (FIS) PROGRAMME, KOLEJ ANTARABANGSA PERNIAGAAN DAN PENGURUSAN (BUSINESS AND MANAGEMENT INTERNATIONAL COLLEGE,BMIC)

AGENSI KELAYAKAN MALAYSIA

2014 NATIONAL

10. PENILAI AKREDITASI PENUH FOUNDATION IN SCIENCE IN COLLABORATION WITH HELP UNIVERSITY INSTITUT SAINS DAN PENGURUSAN SABAH

AGENSI KELAYAKAN MALAYSIA

2014 NATIONAL

11. PENILAI AKREDITASI DIPLOMA SAINS GUNAAN UNIVERSITI TUN HUSSEIN ONN

AGENSI KELAYAKAN MALAYSIA

2014 NATIONAL

12. PENILAI AKREDITASI SEMENTARA SARJANA SAINS (FIZIK GUNAAN) UNIVERSITI TUN HUSSEIN ONN

AGENSI KELAYAKAN MALAYSIA (MQA)

2013 NATIONAL

13. PENILAI AKREDITASI SARJANA SCIENCE (MOD PENYELIDIKAN) UNIVERSITI TUN HUSSEIN ONN

AGENSI KELAYAKAN MALAYSIA (MQA)

2013 NATIONAL

14. PENILAI AKREDITASI BACHELOR OF SCIENCE (HONOURS) APPLIED PHYSICS WITH SCIENTIFIC INSTRUMENTATION KOLEJ UNIVERSITI TUNKU ABDUL RAHMAN KUALA LUMPUR

AGENSI KELAYAKAN MALAYSIA (MQA)

2013 NATIONAL

15. PENILAI AKREDITASI DIPLOMA SAINS UNIVERSITI PENDIDIKAN SULTAN IDRIS (UPSI)

AGENSI KELAYAKAN MALAYSIA (MQA)

2013 NATIONAL

16. PENILAI AKREDITASI FOUNDATION IN SCIENCE KOLEJ SEGI SARAWAK

AGENSI KELAYAKAN MALAYSIA (MQA)

2013 NATIONAL

17. PENILAI AKREDITASI SEMENTARA FOUNDATION IN SCIENCE MURNI INTERNATIONAL COLLEGE

AGENSI KELAYAKAN MALAYSIA (MQA)

2013 NATIONAL

18. PENILAI AKREDITASI PROVISIONAL AGENSI KELAYAKAN MALAYSIA (MQA) DIPLOMA SAINS GUNAAN, UNIVERSITI TUN HUSSEIN ONN, JOHOR

AGENSI KELAYAKAN MALAYSIA (MQA)

2011 NATIONAL

CONSULTATION

19. PENILAI AKREDITASI PROVISIONAL AGENSI KELAYAKAN MALAYSIA (MQA) FOUNDATION IN SCIENCE, KOLEJ SURIA PJ.

AGENSI KELAYAKAN MALAYSIA (MQA)

2011 NATIONAL

20. PENILAI SAINS FIZIK AGENSI KELAYAKAN MALAYSIA (MQA)

AGENSI KELAYAKAN MALAYSIA (MQA)

2011 NATIONAL

21. PENILAI AKREDITASI IJAZAH SARJANA MUDA PERGURUAN DENGAN KEPUJIAN IPG KAMPUS DARUL AMAN

AGENSI KELAYAKAN MALAYSIA (MQA)

2010 NATIONAL

22. PENILAI AKREDITASI FOUNDATION IN SCIENCE KOLEJ UNIVERSITI HELP, DAMANSARA KL

AGENSI KELAYAKAN MALAYSIA (MQA)

2010 NATIONAL

23. PENILAI AKREDITASI FOUNDATION IN SCIENCE SEGI UNIVERSITY COLLEGE

AGENSI KELAYAKAN MALAYSIA (MQA)

2009 NATIONAL

24. PENILAI AKREDITASI FOUNDATION IN SCIENCE INSTITUT NIRAWANA

AGENSI KELAYAKAN MALAYSIA (MQA)

2009 NATIONAL

AWARDS/RECOGNITION

1. CELF BIOFILM GREEN ELECTROLYTE FOR PROTON BATTERY

Malaysia Technology Expo (MTE) 2023

2023 ANTARABANGSA SILVER

2. CELF BIO-FILM: GREEN ELECTROLYTE FOR PROTON BATTERY

34th INTERNATIONAL INVENTION & TECHNOLOGY EXHIBITION MALAYSIA (ITEX2023)

2023 ANTARABANGSA GOLD

3. CELF, GREEN CONDUCTING ELECTROLYTE

INVENTION, INNOVATION & DESIGN EXPOSITION 2023 (IIDEX 2023)

2023 ANTARABANGSA SILVER

4. ACADEMIC ADVISOR

UNIVERSITI PENDIDIKAN SULTAN IDRIS

2022 NATIONAL

AWARDS/RECOGNITION

5. CELF BIOFILM: PROTON CONDUCTING CELLULOSE BASED ELECTROLYTES

INNOVATION BANK CHALLENGE (IBC 2022)

2022 UNIVERSITI GOLD

6. ACADEMIC ADVISOR

UNIVERSITI PENDIDIKAN SULTAN IDRIS

2019 NATIONAL

7. TOP 100 RESEARCHERS USIM (2013-2017)

TOP 100 RESEARCHERS

2018 UNIVERSITI CERTIFICATE OF APPRECIATION

8. CULTIVATING INNOVATION AND CREATIVITY CULTURE

THE 1(st) INTERNATIONAL MALAYSIA - INDONESIA - THAILAND SYMPOSIUM ON INNOVATION AND CREATIVITY (iMIT

2017 UNIVERSITI SILVER

9. ANUGERAH PERKHIDMATAN CEMERLANG 2016

2016 UNIVERSITY

10. ANUGERAH PERKHIDMATAN CEMERLANG 2010

2010 UNIVERSITY

11. ANUGERAH PERKHIDMATAN CEMERLANG 2008

2008 UNIVERSITY