

PROF. MADYA DR. ERNIE SUZANA BINTI ALI

PENSYARAH UNIVERSITI DS14

CONTACT

PHONE

6425

E-MAIL

ernie@usim.edu.my

FACULTY

Fakulti Sains Dan Teknologi

SUPERVISION

	COMPLETED	ONGOING
PhD	1	0
Master	0	0

AREAS OF EXPERTISE

- Bio Composites And Hybrid Composites
- Material Physics
- Other Nano Materials, Characterisation And Manufacturing N.e.c

ACADEMIC QUALIFICATION

- 2008 **PhD** - Sains Bahan
- 2003 **Master** - Sains Bahan
- 2001 **Bachelor** - Sains Bahan

RESEARCH

1. **ELUCIDATING THE STRUCTURE?FUNCTION RELATIONSHIPS IN BACTERIAL NANOCELLULOSE?PEG COMPOSITES FOR FOOD PACKAGING**
   2026 | GERAN PENYELIDIKAN FUNDAMENTAL | ON GOING | MAIN RESEARCHER

2. **MECHANISTIC INSIGHTS INTO BACTERIAL CELLULOSE BIOSYNTHESIS FROM RICE WASTEWATER THROUGH KOMBUCHA FERMENTATION**
   2026 | GERAN PENYELIDIKAN FUNDAMENTAL | ON GOING | CO-RESEARCHER

3. **UNRAVELLING THE RADIATION ATTENUATION AND SKIN SHIELDING PROPERTIES OF BISMUTH OXIDE-FORMULATED GLOVES AND HAND CREAMS VIA THERMOLUMINESCENCE DOSIMETRY CHIPS**
   2024 | GERAN KPT | ON GOING | CO-RESEARCHER

4. **INVESTIGATING THE DE-AND-RE-POLYMERIZATION ON CHAIN EXTENSION OF RECYCLED PET FOR HIGH PERFORMANCE 3D PRINTING MATERIAL**
   2024 | GERAN KPT | ON GOING | CO-RESEARCHER

5. **SUSTAINABLE SMART HYBRID NANOCOMPOSITES POLYURETHANE USING 4D PRINTING**
   2022 | GERAN ANTARABANGSA | ON GOING | MAIN RESEARCHER

RESEARCH

6. ELECTROMAGNETIC WAVE ABSORPTION MECHANISM OF HYBRID NANO-COMPOSITE-3D

2020 | GERAN KPT | COMPLETED | CO-RESEARCHER

7. LOW COST 3D PRINTED HONEYCOMB-TERMINALIA CATAPPA FRUIT SHELLS COMPOSITES AS AN ABSORBING MATERIALS IN REDUCING ELECTROMAGNETIC INTERFERENCE POLLUTION

2020 | GERAN PENYELIDIKAN USIM RACER | COMPLETED | CO-RESEARCHER

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

2017 | GERAN ANTARABANGSA | 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. SMART COATING FROM PALM OIL BASED ACRYLIC-POLYURETHANE

2016 | GERAN PENYELIDIKAN TRANSLASIONAL | COMPLETED | MAIN RESEARCHER

11. DETERMINATION OF ZT FOR SEGMENTED THERMOELECTRIC GENERATOR (TEG) UNDER LARGE TEMPERATURE DIFFERENCE (L?T) USING "OPEN-SHORT CIRCUIT" TECHNIQUE

2015 | GERAN KPT | COMPLETED | CO-RESEARCHER

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

2013 | GERAN PENYELIDIKAN USIM | COMPLETED | CO-RESEARCHER

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

2012 | GERAN KPT | COMPLETED | CO-RESEARCHER

14. PENGGUNAAN MEDIA BARU DI KALANGAN KELUARGA MUSLIM

2012 | GERAN KPT | COMPLETED | CO-RESEARCHER

15. DEVELOPMENT OF AN ALTERNATIVE MATERIAL FOR HYDROGEN STORAGE DERIVED FROM MONTMORILLONITE NANOCLAY

2012 | GERAN PENYELIDIKAN USIM | COMPLETED | CO-RESEARCHER

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

2012 | GERAN KPT | COMPLETED | MAIN RESEARCHER

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

2012 | GERAN PENYELIDIKAN PENTADBIR | COMPLETED | MAIN RESEARCHER

RESEARCH

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

2011 | GERAN PENYELIDIKAN FUNDAMENTAL | COMPLETED | CO-RESEARCHER

19. BIOSORPTIONS OF HEAVY METALS FROM AQUEOUS SOLUTION BY DESSICATED COCONUT RESIDUE: CHARACTERIZATION,

2011 | GERAN PENYELIDIKAN FUNDAMENTAL | COMPLETED | CO-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 | MAIN RESEARCHER

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

2011 | GERAN PENYELIDIKAN FUNDAMENTAL | COMPLETED | MAIN RESEARCHER

22. FUNDAMENTAL STUDIES ON THE FABRICATION OF NANOPARTICLE MODIFIED GREEN POLYURETHANE ADHESIVES

2009 | GERAN KPT | COMPLETED | MAIN RESEARCHER

23. MECHANICAL AND THERMAL CHARACTERIZATION OF IN-HOUSE INSULATOR USING PALM OIL POLYOL AND KENAF, HIBIS

2009 | GERAN PENYELIDIKAN FUNDAMENTAL | COMPLETED | MAIN RESEARCHER

PUBLICATION

1. SUSTAINABLE SMART NANOCOMPOSITE POLYURETHANE

THE FUTURE WITH POLYURETHANES: POLYURETHANE INTERNATIONAL TECHNOLOGY FOUNDATION RESEARCH GRANT REPORT 7:2024.8 LISTING PAGE

2024 | JOURNAL | OTHER DATABASE | MAIN AUTHOR

2. ENHANCED THERMAL AND TENSILE BEHAVIOR OF MWCNT REINFORCED PALM OIL POLYOL-BASED SHAPE MEMORY POLYURETHANE

ARABIAN JOURNAL OF CHEMISTRY

2022 | JOURNAL | ISI | CO-AUTHOR

3. MECHANICAL PROPERTIES OF GREEN AND PETROLEUM BASED POLYURETHANE AS GROUTING MATERIALS

JOURNAL OF MECHANICAL ENGINEERING

2022 | JOURNAL | SCOPUS | CO-AUTHOR

4. PREPARATION METHODS OF BIOFIBER-BASED POLYMER COMPOSITES

ADVANCES IN BIO-BASED FIBER - MOVING TOWARDS A GREEN SOCIETY

2022 | CHAPTER IN BOOK | CO-AUTHOR

PUBLICATION

5. PREPARATION OF CASTOR-BASED POLYURETHANE COMPOSITES FILLED WITH WASTE CARBON TYRES (WCT) AS GROUTING MATERIAL

JURNAL TEKNOLOGI

2020 JOURNAL SCOPUS MAIN AUTHOR / CONTACT PERSON IN USIM

6. THERMO-RESPONSIVE SELF-HEALING POLYCAPROLACTONE URETHANE COATINGS FROM WASTE PALM COOKING OIL

INTERNATIONAL JOURNAL OF ENGINEERING AND ADVANCED TECHNOLOGY

2019 JOURNAL SCOPUS CO-AUTHOR

7. EFFECT OF NCO/OH RATIO ON PHYSICAL AND MECHANICAL PROPERTIES OF CASTOR-BASED POLYURETHANE GROUTING MATERIALS

JOURNAL OF PHYSICS: CONFERENCE SERIES

2019 JOURNAL SCOPUS CO-AUTHOR

8. SCRATCH HARDNESS PROPERTIES OF WASTE PALM COOKING OIL BASED POLYCAPROLACTONE URETHANE COATINGS

MATERIALS SCIENCE FORUM

2019 JOURNAL ERA CO-AUTHOR

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

MATERIALS SCIENCE FORUM

2019 JOURNAL ERA MAIN AUTHOR

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

POLYMERS FOR ADVANCED TECHNOLOGIES

2018 JOURNAL WOS CO-AUTHOR

11. 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

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

2018 3RD INTERNATIONAL CONFERENCE ON MATERIALS TECHNOLOGY AND APPLICATIONS (ICMTA 2018)

2018 PROCEEDING NON-INDEX MAIN AUTHOR

13. THE EFFECT OF POLYOL TYPES AND MOLECULAR WEIGHT ON THE SHAPE MEMORY PROPERTIES OF PALM KERNEL OIL?BASED POLYURETHANE

6TH INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN MATERIALS, MINERALS & ENVIRONMENT (RAMM) 2018, RAMM 2018, 27 - 29 NOVEMBER 2018, PENANG, MALAYSIA

2018 PROCEEDING NON-INDEX CO-AUTHOR

14. INTERNATIONAL JOURNAL OF ENGINEERING AND TECHNOLOGY(UAE)

2018 BOOK CO-EDITOR

PUBLICATION

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

2018 BOOK EDITOR

16. HYBRID BIOFOAM USING CELLULOSE NANOCRYSTAL (CNC) AND NANOCLAY

MATERIALS TODAY: PROCEEDINGS

2017 JOURNAL SCOPUS MAIN AUTHOR

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

MATERIALS SCIENCE FORUM

2017 JOURNAL SCOPUS MAIN AUTHOR

18. EFFECT OF SOFT-HARD SEGMENT CONTENT ON PROPERTIES OF PALM OIL POLYOL BASED SHAPE MEMORY POLYURETHANE

AIP CONFERENCE PROCEEDINGS

2017 JOURNAL SCOPUS CO-AUTHOR

19. THE MECHANICAL PROPERTIES OF MEDIUM DENSITY RIGID POLYURETHANE BIOFOAM

MATEC WEB OF CONFERENCES

2016 JOURNAL SCOPUS MAIN AUTHOR

20. THERMAL AND MECHANICAL CHARACTERIZATIONS OF NANOCLAY/ PALM OIL POLYOL BASED POLYURETHANE COMPOSITES

KEY ENGINEERING MATERIALS

2016 JOURNAL SCOPUS CO-AUTHOR

21. SYNTHESIS OF ZNO NANOSTRUCTURE USING SOL-GEL METHOD

PROCEDIA CHEMISTRY

2016 JOURNAL OTHER DATABASE CO-AUTHOR

22. GREEN BIOSYNTHESIS OF SILVER NANO PARTICLES USING ''''POLYGONUM HYDROPIPER'''' AND STUDY ITS CATALYTIC DEGRADATION OF METHYLENE BLUE

PROCEDIA CHEMISTRY

2016 JOURNAL OTHER DATABASE CO-AUTHOR

23. TENSILE BEHAVIOR OF SICNP AND MWCNTS FILLED TOUGHENED EPOXY NANOCOMPOSITES: A COMPARATIVE STUDY

PROCEDIA CHEMISTRY

2016 JOURNAL OTHER DATABASE CO-AUTHOR

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

2016 4TH ASIA CONFERENCE ON MECHANICAL AND MATERIALS ENGINEERING (ACMME 2016)

2016 PROCEEDING NON-INDEX MAIN AUTHOR

25. HYBRID BIONANOCOMPOSITE MADE FROM PALM OIL

NATIONAL SYMPOSIUM OF POLYMERIC MATERIALS 2016 (NSPM 2106)

2016 PROCEEDING NON-INDEX MAIN AUTHOR

PUBLICATION

26. UTILIZATION OF PALM OIL TO SMART MATERIALS

POLYURETHANE

2016 | CHAPTER IN BOOK | MAIN AUTHOR

27. GREEN POLYURETHANE ADHESIVES FOR WOOD BONDING

ADVANCED MATERIALS RESEARCH

2015 | JOURNAL | SCOPUS | CO-AUTHOR

28. THE MECHANICAL PROPERTIES OF MEDIUM DENSITY RIGID POLYURETHANE BIOFOAM

2ND INTERNATIONAL CONFERENCE ON MECHANICAL PROPERTIES OF MATERIALS(ICMPM 2015)

2015 | PROCEEDING | NON-INDEX | MAIN AUTHOR

29. DURABILITY OF GREEN POLYURETHANE ADHESIVE BONDED ALUMINUM ALLOY IN DRY AND HYDROTHERMAL AGEING CONDITIONS

JOURNAL OF APPLIED POLYMER SCIENCE

2014 | JOURNAL | WOS | CO-AUTHOR & CO-EDITOR

30. INFLUENCE OF ISOCYANATE STRUCTURES ON MECHANICAL PERFORMANCE OF ALUMINUM BONDED WITH GREEN POLYURETHANE ADHESIVE

ADVANCED MATERIALS RESEARCH

2014 | JOURNAL | SCOPUS | CO-AUTHOR & CO-EDITOR

31. EFFECT OF SURFACE TREATMENTS ON THE DURABILITY OF GREEN POLYURETHANE ADHESIVE BONDED ALUMINIUM ALLOY

INTERNATIONAL JOURNAL OF ADHESION AND ADHESIVES

2014 | JOURNAL | WOS | CO-AUTHOR & CO-EDITOR

32. PIONEERING ISLAMIC SCIENCE SPEARHEADING KNOWLEDGE

2014 | BOOK | EDITOR

33. FEASIBILITY STUDY OF ﷺ DIMENSIONLESS FIGURE-OF-MERIT (ZT) MEASUREMENT TECHNIQUE FOR THERMOELECTRIC DEVICE

PIONEERING ISLAMIC SCIENCE, SPEARHEADING KNOWLEDGE

2014 | CHAPTER IN BOOK | CO-AUTHOR

34. SUPERCAPACITOR AS A RENEWABLE ENERGY AND ITS CONTRIBUTION TO UMMAH

PIONEERING ISLAMIC SCIENCE, SPEARHEADING KNOWLEDGE

2014 | CHAPTER IN BOOK | CO-AUTHOR

35. SHAPE MEMORY BIOPOLYURETHANE

PIONEERING ISLAMIC SCIENCE, SPEARHEADING KNOWLEDGE

2014 | CHAPTER IN BOOK | MAIN AUTHOR

36. PALM OIL POLYOL/ POLYURETHANE SHAPE MEMORY NANOCOMPOSITES

APPLIED MECHANICS AND MATERIALS

2013 | JOURNAL | SCOPUS | CO-AUTHOR

PUBLICATION

37. GREEN POLYURETHANE ADHESIVE BONDING OF ALUMINUM: EFFECT OF SURFACE TREATMENTS

APPLIED MECHANICS AND MATERIALS

2013 JOURNAL SCOPUS CO-AUTHOR

38. NANOCLAY MODIFIED GREEN POLYURETHANE ADHESIVES

BOND 21-JOINT INTERNATIONAL CONFERENCE ON NANOSCIENCE, ENGINEERING AND MANAGEMENT (ICNE (INTERNATIONAL CONFERENCE ON NANOELECTRONICS AND EDUCATION)

2013 PROCEEDING NON-INDEX CO-AUTHOR

39. OER@USIM

OPEN EDUCATIONAL RESOURCES IN MALAYSIAN HIGHER LEARNING INSTITUTIONS

2013 CHAPTER IN BOOK MAIN AUTHOR

40. POLYURETHANE/CLAY SHAPE MEMORY NANOCOMPOSITES BASED ON PALM OIL POLYOL

ADVANCED MATERIALS RESEARCH

2012 JOURNAL WOS CO-AUTHOR

41. BIONANOCOMPOSITE HYBRID POLYURETHANE FOAM REINFORCED WITH EMPTY FRUIT BUNCH AND NANOCLAY

COMPOSITES: PART B

2012 JOURNAL WOS MAIN AUTHOR

42. CHARACTERISTICS OF HYDROLYSIS RESISTANT POLYCAPROLACTONE/PALM KERNEL OIL BASED POLYOL

ADVANCED MATERIALS RESEARCH

2012 JOURNAL SCOPUS CO-AUTHOR

43. CLAY REINFORCED HYPERBRANCHED POLYURETHANE NANOCOMPOSITES BASED ON PALM OIL POLYOL AS SHAPE MEMORY MATERIALS

ADVANCED MATERIALS RESEARCH

2012 JOURNAL WOS MAIN AUTHOR

44. CROSSLINKING OF PALM OIL POLYOL BASED SHAPE MEMORY POLYURETHANE

8TH ASIAN-AUSTRALASIAN CONFERENCE ON COMPOSITE MATERIALS (ACCM-8)

2012 PROCEEDING NON-INDEX MAIN AUTHOR

45. WEB 2.0@USIM

WEB 2.0 DI IPTA MALAYSIA

2012 CHAPTER IN BOOK MAIN AUTHOR

46. PROMISING MATERIALS MADE OF BIO-HYBRID POLYURETHANE

WORLD JOURNAL OF ENGINEERING

2011 JOURNAL WOS MAIN AUTHOR

47. PROMISING MATERIALS MADE OF BIO-HYBRID POLYURETHANE

ICCE 19 - THE NINETEENTH ANNUAL INTERNATIONAL CONFERENCE ON COMPOSITES OR NANO ENGINEERING

2011 PROCEEDING NON-INDEX MAIN AUTHOR

PUBLICATION

48. CLAY REINFORCED PALM OIL POLYOL/ POLYURETHANE SHAPE MEMORY NANOCOMPOSITES

THE REGIONAL CONFERENCE OF SOLID STATE SCIENCE AND TECHNOLOGY (RCSSST)

2011 PROCEEDING NON-INDEX MAIN AUTHOR

49. BIONANOCOMPOSITE HYBRID FOAM:IT&#65533;S MECHANISME

THE INTERNATIONAL CONFERENCE FOR NANOMATERIALS SYNTHESIS AND CHARACTERIZATION 2011

2011 PROCEEDING NON-INDEX MAIN AUTHOR

50. NOVEL HYBRID NANOCOMPOSITE POLYURETHANE BIOFOAM: THERMAL AND FIRE BEHAVIOUR

22ND PACIFIC SCIENCE CONGRESS

2011 PROCEEDING NON-INDEX MAIN AUTHOR

51. HYBRID BIONANOCOMPOSITE POLYURETHANE FOAM

MALAYSIAN NATURAL FIBRES FOR DIVERSE BIO-BASED APPLICATIONS

2011 CHAPTER IN BOOK MAIN AUTHOR

52. BIONANOCOMPOSITE HYBRID POLYURETHANE FOAM REINFORCED WITH EMPTY FRUIT BUNCH AND NANOCLAY

7TH ASIAN-AUSTRALASIAN CONFERENCE ON COMPOSITE MATERIALS (ACCM-7)

2010 PROCEEDING NON-INDEX MAIN AUTHOR

53. HYBRID BIOFOAM AS AN INSULATOR

PROGRAMS AND ABSTRACT

2010 CHAPTER IN BOOK MAIN AUTHOR

CONSULTATION

1. JURI

MOSTI

2017 NATIONAL

2. JOURNAL REVIEWER - INDUSTRIAL CROPS AND PRODUCTS

2014 INTERNATIONAL

3. JOURNAL REVIEWER - MATERIALS LETTERS

ELSEVIER

2013 INTERNATIONAL

4. JOURNAL REVIEWER - INDUSTRIAL CROPS AND PRODUCTS

ELSEVIER

2013 INTERNATIONAL

5. E-LEARNING GUIDELINES FOR MALAYSIAN HEIS

KPM

2013 NATIONAL

CONSULTATION

6. KHIDMAT NASIHAT DAN PERUNDINGAN UJIAN REGANGAN KABEL FIBER OPTIK

SIGINIFICANT TECHNOLOGIES SDN BHD

2012 OTHERS

7. JOURNAL REVIEWER - MATERIALS LETTERS

ELSEVIER

2012 INTERNATIONAL

8. JOURNAL REVIEWER - MATERIALS LETTERS

ELSEVIER

2010 INTERNATIONAL

9. JOURNAL REVIEWER - JOURNAL OF TROPICAL AGRICULTURE AND FOOD SCIENCE (JTAFS)

MARDI

2010 NATIONAL

AWARDS/RECOGNITION

1. ARTICLE ASSESSOR FOR AWARD

USIM

2025 UNIVERSITY

2. TRAINER / FACILITATOR

UITM

2025 INTERNATIONAL

3. TRAINER / FACILITATOR

PDRM

2025 NATIONAL

4. TRAINER / FACILITATOR

PDRM

2025 NATIONAL

5. ANUGERAH PEKERJA CEMERLANG 2022

2023 UNIVERSITY

6. ACADEMIC ADVISOR

LEMBAGA TEKNOLOGIS MALAYSIA (MBOT)

2022 NATIONAL

7. ACADEMIC ADVISOR

UNIVERSITI TEKNOLOGI MARA

2022 NATIONAL

AWARDS/RECOGNITION

8. ACADEMIC ADVISOR

USIM

2022 UNIVERSITY

9. ACADEMIC ADVISOR

USIM

2022 UNIVERSITY

10. ACADEMIC ADVISOR

USIM

2021 UNIVERSITY

11. ACADEMIC ADVISOR

USIM

2021 UNIVERSITY

12. ACADEMIC ADVISOR

USIM

2021 UNIVERSITY

13. ACADEMIC ADVISOR

USIM

2021 UNIVERSITY

14. ACADEMIC ADVISOR

USIM

2021 UNIVERSITY

15. ACADEMIC ADVISOR

UNIKL

2021 NATIONAL

16. ACADEMIC ADVISOR

UNIKL

2021 NATIONAL

17. ACADEMIC ADVISOR

INSTITUTE FOR ENGINEERING RESEARCH AND PUBLICATION (IFERP)

2019 INTERNATIONAL

18. TOP 100 RESEARCHERS USIM (2013-2017)

TOP 100 RESEARCHERS

2018 UNIVERSITI CERTIFICATE OF APPRECIATION

19. ANUGERAH PEKERJA CEMERLANG

2017 UNIVERSITY

AWARDS/RECOGNITION

20. ACADEMIC ADVISOR

UITM SHAH ALAM

2017 NATIONAL

21. TACTILE PAVEMENT FOR THE BLIND

NOVEL RESEARCH INNOVATION AND COMPETITION (NRIC 2016)

2016 KEBANGSAAN SILVER

22. POST DOCTORAL

2015 INTERNATIONAL

23. PENYELIDIK TERBAIK

2014 UNIVERSITY

24. POST DOCTORAL

2014 INTERNATIONAL

25. VISITING RESEARCHER

IBM ALMADEN RESEARCH CENTER, 650 HARRY ROAD, SAN JOSE, CA 95120-6099

2014 INTERNATIONAL

26. ANUGERAH PEKERJA CONTOH

2013 OTHERS

27. ANUGERAH KECEMERLANGAN PENYELIDIKAN

2013 UNIVERSITY

28. BIOBASED SHAPE MEMORY POLYURETHANE (SMPU) FOR BIOMEDICAL APPLICATION

23rd INTERNATIONAL INVENTION, INNOVATION &TECHNOLOGY EXHIBITION (ITEX2012)

2012 ANTARABANGSA SILVER

29. I-GREENELAST-II

EKSPO INOVASI ISLAM I-INOVA 2012

2012 KEBANGSAAN SILVER

30. BIO-BASED SHAPE MEMORY POLYURETHANE FOR BIOMEDICAL APPLICATIONS

Ekspo Penyelidikan dan Ciptaan Institusi Pengajian Tinggi Antarabangsa 2011

2011 ANTARABANGSA CERTIFICATE OF APPRECIATION