

Profile Image

**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

PhD - Completed: 1, Ongoing: 0

Master - Completed: 0,
Ongoing: 0

AREAS OF EXPERTISE

Polymer-based Composites

Bio-composites

Polymeric Adhesive, Coating And Ink

ACADEMIC QUALIFICATION

PhD in Sains Bahan (2008)

Master in Sains Bahan (2003)

Bachelor in Sains Bahan (2001)

RESEARCH

1. SUSTAINABLE SMART HYBRID NANOCOMPOSITES POLYURETHANE USING 4D PRINTING

2022 GERAN ANTARABANGSA ON GOING MAIN RESEARCHER

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

2017 GERAN ANTARABANGSA COMPLETED MAIN RESEARCHER

3. SMART COATING FROM PALM OIL BASED ACRYLIC-POLYURETHANE

2016 GERAN PENYELIDIKAN TRANSNASIONAL COMPLETED MAIN RESEARCHER

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

2012 GERAN KPT COMPLETED MAIN RESEARCHER

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

2012 GERAN PENYELIDIKAN PENTADBIR COMPLETED MAIN RESEARCHER

RESEARCH

6. 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

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

2011 GERAN PENYELIDIKAN FUNDAMENTAL COMPLETED MAIN RESEARCHER

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

2009 GERAN KPT COMPLETED MAIN RESEARCHER

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

2009 GERAN PENYELIDIKAN FUNDAMENTAL COMPLETED MAIN RESEARCHER

PUBLICATION

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

MATERIALS SCIENCE FORUM

2019 JOURNAL ERA MAIN AUTHOR

2. 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

3. HYBRID BIOFOAM USING CELLULOSE NANOCRYSTAL (CNC) AND NANOCCLAY

MATERIALS TODAY: PROCEEDINGS

2017 JOURNAL SCOPUS MAIN AUTHOR

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

MATERIALS SCIENCE FORUM

2017 JOURNAL SCOPUS MAIN AUTHOR

5. THE MECHANICAL PROPERTIES OF MEDIUM DENSITY RIGID POLYURETHANE BIOFOAM

MATEC WEB OF CONFERENCES

2016 JOURNAL SCOPUS MAIN AUTHOR

6. 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

7. HYBRID BIONANOCOMPOSITE MADE FROM PALM OIL

NATIONAL SYMPOSIUM OF POLYMERIC MATERIALS 2016 (NSPM 2106)

2016 PROCEEDING NON-INDEX MAIN AUTHOR

8. UTILIZATION OF PALM OIL TO SMART MATERIALS

POLYURETHANE

2016 CHAPTER IN BOOK MAIN AUTHOR

9. 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

10. SHAPE MEMORY BIOPOLYURETHANE

PIONEERING ISLAMIC SCIENCE, SPEARHEADING KNOWLEDGE

2014 CHAPTER IN BOOK MAIN AUTHOR

11. OER@USIM

OPEN EDUCATIONAL RESOURCES IN MALAYSIAN HIGHER LEARNING INSTITUTIONS

2013 CHAPTER IN BOOK MAIN AUTHOR

12. BIONANOCOMPOSITE HYBRID POLYURETHANE FOAM REINFORCED WITH EMPTY FRUIT BUNCH AND NANOCCLAY

COMPOSITES: PART B

2012 JOURNAL WOS MAIN AUTHOR

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

ADVANCED MATERIALS RESEARCH

2012 JOURNAL WOS MAIN AUTHOR

PUBLICATION

14. CROSSLINKING OF PALM OIL POLYOL BASED SHAPE MEMORY POLYURETHANE

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

2012 PROCEEDING NON-INDEX MAIN AUTHOR

15. WEB 2.0@USIM

WEB 2.0 DI IPTA MALAYSIA

2012 CHAPTER IN BOOK MAIN AUTHOR

16. PROMISING MATERIALS MADE OF BIO-HYBRID POLYURETHANE

WORLD JOURNAL OF ENGINEERING

2011 JOURNAL WOS MAIN AUTHOR

17. 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

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

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

2011 PROCEEDING NON-INDEX MAIN AUTHOR

19. BIONANOCOMPOSITE HYBRID FOAM:IT'S MECHANISME

THE INTERNATIONAL CONFERENCE FOR NANOMATERIALS SYNTHESIS AND CHARACTERIZATION 2011

2011 PROCEEDING NON-INDEX MAIN AUTHOR

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

22ND PACIFIC SCIENCE CONGRESS

2011 PROCEEDING NON-INDEX MAIN AUTHOR

21. HYBRID BIONANOCOMPOSITE POLYURETHANE FOAM

MALAYSIAN NATURAL FIBRES FOR DIVERSE BIO-BASED APPLICATIONS

2011 CHAPTER IN BOOK MAIN AUTHOR

22. BIONANOCOMPOSITE HYBRID POLYURETHANE FOAM REINFORCED WITH EMPTY FRUIT BUNCH AND NANOCCLAY

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

2010 PROCEEDING NON-INDEX MAIN AUTHOR

23. 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

AWARDS/RECOGNITION

1. ANUGERAH PEKERJA CEMERLANG 2022

2023 UNIVERSITY

2. ACADEMIC ADVISOR

LEMBAGA TEKNOLOGIS MALAYSIA (MBOT)

2022 NATIONAL

3. ACADEMIC ADVISOR

UNIVERSITI TEKNOLOGI MARA

2022 NATIONAL

4. ACADEMIC ADVISOR

USIM

2022 UNIVERSITY

5. ACADEMIC ADVISOR

USIM

2022 UNIVERSITY