

Profile Image

DR. SYAHIDA BINTI SUHAIMI

PENSYARAH UNIVERSITI DS13

CONTACT

Phone: 06-7988451

E-mail:

syahida@usim.edu.my

Faculty: Fakulti Sains Dan Teknologi

SUPERVISION

PhD - Completed: 0, Ongoing: 1

Master - Completed: 0, Ongoing: 6

AREAS OF EXPERTISE

Nano - Materials

ACADEMIC QUALIFICATION

PhD in Sains (fizik) (2016)

Bachelor in Sains (fizik Bahan) (2012)

RESEARCH

1. EVALUATION OF THE ROLE OF DOPING COMPOSITION IN ZNO/C ANODE MATERIALS FOR PROTON BATTERIES: INSIGHTS FROM STRUCTURAL TO CONDUCTIVITY INVESTIGATIONS

2024

GERAN KPT

ON GOING

MAIN RESEARCHER

2. MASKYLINK: DISCOVERING ASTRONOMY PHENOMENA

2024

GERAN PEMBANGUNAN INOVASI (GPI)

ON GOING

CO-

RESEARCHER

3. ENHANCING IONIC CONDUCTING PROPERTIES OF 2-HYDROXYETHYL CELLULOSE-BASED POLYMERS VIA AMMONIUM FORMATE DOPING PROCESS FOR ENERGY STORAGE APPLICATION

2023

GERAN PENYELIDIKAN PENTADBIR

ON GOING

CO-RESEARCHER

4. HYBRID ZNO NANOPARTICLES-BIOCHAR MATERIALS IN PHOTOCATALYTIC OPTICAL FIBER SENSOR FOR WASTEWATER TREATMENT APPLICATION

2023

GERAN PENYELIDIKAN USIM

ON GOING

CO-RESEARCHER

5. TRANSPORT PROPERTIES OF CELLULOSE DERIVATIVES BASED POLYMER ELECTROLYTE DOPED WITH IONIC LIQUIDS USING SPECTROSCOPY METHODS

2023

GERAN KPT

ON GOING

CO-RESEARCHER

RESEARCH

6. 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 MAIN RESEARCHER

7. CHARACTERIZATION OF TIN-DOPED ZINC OXIDE NANOWIRES SYNTHESIZED BY HOT-TUBE THERMAL EVAPORATION METHOD

2018 GERAN PENYELIDIKAN USIM COMPLETED MAIN RESEARCHER

8. ANALYZING PERFORMANCE OF RANDOM LASERS AS THE OPTICAL DEVICES FOR BIOSENSING AND MEDICAL APPLICATIONS

2018 GERAN PENYELIDIKAN USIM COMPLETED CO-RESEARCHER

PUBLICATION

1. THE INFLUENCE OF VARYING AR/O₂GAS RATIO WITH CATALYST-FREE GROWTH BY HOMEMADE THERMAL EVAPORATION TECHNIQUE

JOURNAL OF ADVANCED RESEARCH IN FLUID MECHANICS AND THERMAL SCIENCES

2024 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

2. 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 CORRESPONDING AUTHOR

3. COMPUTATIONAL SIMULATION AND EXPERIMENTAL ANALYSIS OF ACTIVATED CARBON FROM AGRICULTURAL WASTE AS ELECTROMAGNETIC ABSORBER

JOURNAL OF ADVANCED RESEARCH IN APPLIED MECHANICS

2024 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

4. 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

5. LASER APPLICATION IN AESTHETIC MEDICINE FROM HEAD TO TOE HUMAN BODY

2024 BOOK EDITOR

6. A REVIEW STUDY OF BINARY AND TERNARY ZNO/C COMPOSITES AS ANODES FOR HIGH-CAPACITY LITHIUM- ION BATTERIES

IONICS

2023 JOURNAL INDEXED BY ISI, SCOPUS AND ERA CORRESPONDING AUTHOR

7. MODELLING BACKSCATTERED LIGHT IN FIBRE OPTIC BASED ON LIGHT PROPAGATION

ASM SCIENCE JOURNAL

2023 JOURNAL INDEXED BY SCOPUS CORRESPONDING AUTHOR

8. THE ADVANCEMENT OF IOT-BASED SMART SWITCHABLE FILM FOR SECURITY AND PRIVACY MANAGEMENT

11TH INTERNATIONAL CONFERENCE ON APPLIED SCIENCE AND TECHNOLOGY 2022

2023 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

9. THE ADVANCEMENT OF SEMICONDUCTOR MATERIALS AND DEVICES IN AGRICULTURE

2023 BOOK MAIN AUTHOR

10. SMART AUTOMATIC COOLING SYSTEM WITH REDUCED HUMIDITY EFFECT FOR PET HOUSE DURING COVID-19 CRISIS

ASM SCIENCE JOURNAL

2022 JOURNAL INDEXED BY SCOPUS CORRESPONDING AUTHOR

11. DEVELOPMENT OF SMART ELECTROCHROMIC FILM DEVICE

MULTIDISCIPLINARY APPLIED RESEARCH AND INNOVATION

2022 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

12. TRENDS OF SEMICONDUCTOR FABRICATION AND APPLICATION

2022 BOOK MAIN AUTHOR

13. DEVELOPMENT OF INNOVATIVE PROPHETIC FOOD: EFFECT OF DIFFERENT GENOTYPES OF BARLEY (SHAEER) ON QUALITY CHARACTERISTICS OF INSTANT TALBINA DRINK

JURNAL SAINS INSANI

2021 JOURNAL INDEX BY MYCITE 2019 CORRESPONDING AUTHOR

PUBLICATION

14. THE SYNTHESIS AND CHARACTERIZATION OF ANODIC ALUMINA OXIDE USING SULFURIC ACID AND OXALIC ACID

NANO HYBRIDS AND COMPOSITES

2021 JOURNAL WOS CORRESPONDING AUTHOR

15. A REVIEW ON THERMAL EVAPORATION METHOD TO SYNTHESIS ZINC OXIDE AS PHOTOCATALYTIC MATERIAL

NANO HYBRIDS AND COMPOSITES

2021 JOURNAL WOS CORRESPONDING AUTHOR

16. AN ILLEGAL DUMPING DETECTION SYSTEM BASED ON IMAGE PROCESSING IN OPENALPR

ASM SCIENCE JOURNAL

2021 JOURNAL SCOPUS CORRESPONDING AUTHOR

17. NANO HYBRIDS AND COMPOSITES VOL. 31

NANO HYBRIDS AND COMPOSITES

2021 CHAPTER IN BOOK EDITOR

18. DEVELOPMENT OF AUTOMATED MINI GREENHOUSE EMBEDDED WITH ARDUINO

INTERNATIONAL JOURNAL OF ADVANCED RESEARCH IN ENGINEERING INNOVATION

2020 JOURNAL OTHER DATABASE MAIN AUTHOR / CONTACT PERSON IN USIM

19. OPTIMIZATION OF DYE EXTRACTION FROM PURPLE CABBAGE AND CORDYLIN FRUTICOSA IN DYE-SENSITIZED SOLAR CELL

SOLID STATE PHENOMENA

2020 JOURNAL INDEXED BY ERA CORRESPONDING AUTHOR

20. ACCEPTABILITY OF NOVEL ANTIOXIDANT ICE CREAM FORTIFIED WITH NUTRITIOUS CARICA PAPAYA SEED

JOURNAL OF ACADEMIA

2020 JOURNAL OTHER DATABASE CO-AUTHOR

21. ACCEPTABILITY OF NOVEL ANTIOXIDANT ICE CREAM FORTIFIED WITH NUTRITIOUS CARICA PAPAYA SEED

JOURNAL OF ACADEMIA

2020 JOURNAL MYCITE MAIN AUTHOR / CONTACT PERSON IN USIM

22. DIAMOND THIN FILM AS A PHOTOCATALYST FOR PHOTODEGRADATION OF DYES

MALAYSIAN JOURNAL OF CHEMISTRY

2020 JOURNAL SCOPUS CO-AUTHOR

23. ZNO COATED OPTICAL FIBER FOR ALCOHOL SENSING APPLICATIONS

SOLID STATE PHENOMENA

2020 JOURNAL INDEXED BY SCOPUS MAIN AUTHOR

24. PCM-BASED FOR HEAT STORAGE IN SOLAR-THERMAL CONVERTER

SOLID STATE PHENOMENA

2020 JOURNAL INDEXED BY ERA CO-AUTHOR

25. QUALITY ACCEPTANCE AND TEXTURE PROFILE OF WHITE LOAF FOMULATED WITH MAZAFATI DATES (PHOENIX DACTYLIFERA LINN) SEED FLOUR

SEMINAR ANTARABANGSA ISLAM DAN SAINS

2020 PROCEEDING NON-INDEX CO-AUTHOR

26. PRINCIPLES AND CHARACTERISTICS OF RANDOM LASERS AND THEIR APPLICATIONS IN MEDICAL, BIOIMAGING AND BIOSENSING

THE 2ND INTERNATIONAL CONFERENCE ON APPLIED PHOTONICS AND ELECTRONICS 2019 (INCAPE 2019)

2020 PROCEEDING NON-INDEX CO-AUTHOR

PUBLICATION

27. OPTIMIZATION OF DYE EXTRACTION FROM TURMERIC (CURCUMA LONGA L.) AND HENNA LEAVES (LAWSONIA INERMIS L.) IN DYE SENSITIZED SOLAR CELL

SEMINAR ANTARABANGSA ISLAM DAN SAINS 2020

2020 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

28. SOLID STATE PHENOMENA VOL. 307

SOLID STATE SCIENCE AND TECHNOLOGY XXX

2020 CHAPTER IN BOOK EDITOR

29. ALKALI TREATMENT ON HYBRID PINEAPPLE LEAF AND GLASS FIBRE REINFORCED EPOXY COMPOSITES

MALAYSIAN JOURNAL OF SCIENCE HEALTH & TECHNOLOGY

2019 JOURNAL OTHERS DATABASE MAIN AUTHOR

30. EFFECT OF NATURAL DYE SENSITIZERS TOWARDS THE IMPROVEMENT OF DYE-SENSITIZED SOLAR CELL (DSSC) EFFICIENCY

RECENT ADVANCEMENT ON APPLIED PHYSICS, INDUSTRIAL CHEMISTRY AND CHEMICAL TECHNOLOGY: PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON RECENT ADVANCEMENTS IN SCIENCE AND TECHNOLOGY 2017 (ICORAST2017)

2019 PROCEEDING NON-INDEX MAIN AUTHOR

31. PRINCIPLES AND CHARACTERISTICS OF RANDOM LASERS AND THEIR APPLICATIONS IN MEDICAL, BIOIMAGING AND BIOSENSING

THE 2ND INTERNATIONAL CONFERENCE ON APPLIED PHOTONICS AND ELECTRONICS 2019 (INCAPE 2019)

2019 PROCEEDING NON-INDEX CO-AUTHOR

32. THE STRUCTURAL PROPERTIES OF SN-DOPED ZINC OXIDE SYNTHESIZED BY HOT-TUBE THERMAL EVAPORATION

RECENT ADVANCEMENT ON APPLIED PHYSICS, INDUSTRIAL CHEMISTRY AND CHEMICAL TECHNOLOGY: PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON RECENT ADVANCEMENTS IN SCIENCE AND TECHNOLOGY 2017 (ICORAST2017)

2018 PROCEEDING NON-INDEX MAIN AUTHOR

33. OPTIMIZATION OF DYE EXTRACTION FROM PURPLE CABBAGE AND CORDYLINE FRUTICOSA IN DYE-SENSITIZED SOLAR CELL

REGIONAL CONFERENCE SOLID STATE SCIENCE AND TECHNOLOGY 2018

2018 PROCEEDING NON-INDEX MAIN AUTHOR

34. MQ-2 GAS DETECTION BY USING ARDUINO MICROCONTROLLER AND NODE MCU ESP8266 FOR HOME SAFETY

APPLIED SCIENCES UNDERGRADUATE RESEARCH COLLOQUIUM

2018 PROCEEDING NON-INDEX CO-AUTHOR

35. A REVIEW OF ZT MEASUREMENT FOR BULK THERMOELECTRIC MATERIAL

RECENT ADVANCEMENT ON APPLIED PHYSICS, INDUSTRIAL CHEMISTRY AND CHEMICAL TECHNOLOGY: PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON RECENT ADVANCEMENTS IN SCIENCE AND TECHNOLOGY 2017 (ICORAST2017)

2018 PROCEEDING NON-INDEX CO-AUTHOR

36. A REVIEW ON FABRICATION METHODS FOR SEGMENTED THERMOELECTRIC STRUCTURE

RECENT ADVANCEMENT ON APPLIED PHYSICS, INDUSTRIAL CHEMISTRY AND CHEMICAL TECHNOLOGY: PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON RECENT ADVANCEMENTS IN SCIENCE AND TECHNOLOGY 2017 (ICORAST2017)

2018 PROCEEDING NON-INDEX CO-AUTHOR

37. HYBRID SOLID POLYMER ELECTROLYTE FROM DIAPERS AS SEPARATOR FOR ELECTROCHEMICAL DOUBLE LAYER CAPACITOR (EDLC)

RECENT ADVANCEMENT ON APPLIED PHYSICS, INDUSTRIAL CHEMISTRY AND CHEMICAL TECHNOLOGY: PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON RECENT ADVANCEMENTS IN SCIENCE AND TECHNOLOGY 2017 (ICORAST2017)

2018 PROCEEDING NON-INDEX CO-AUTHOR

38. STRUCTURAL PROPERTIES OF SN-DOPED ZINC OXIDE SYNTHESIZED BY HOT-TUBE THERMAL EVAPORATION

INTERNATIONAL CONFERENCE ON RECENT ADVANCEMENTS IN SCIENCE & TECHNOLOGY

2017 PROCEEDING NON-INDEX MAIN AUTHOR

39. EFFECT OF ALKALI TREATMENT ON THE WATER ABSORPTION OF HYBRID PINEAPPLE LEAF/ GLASS FIBRE REINFORCED EPOXY

SEMINAR ANTARABANGASA ISLAM DAN SAINS (SAIS) 2018

2017

PROCEEDING

NON-INDEX

MAIN AUTHOR

PUBLICATION

40. OPTIMIZATION OF DYE EXTRACTION FROM PURPLE CABBAGE AND CORDYLIN FRUTICOSA IN DYE-SENSITIZED SOLAR CELL

FINAL YEAR PROJECT SYMPOSIUM

2017 PROCEEDING NON-INDEX CO-AUTHOR

41. EFFECT OF NATURAL DYE SENSITIZERS TOWARDS THE IMPROVEMENT OF DYE-SENSITIZED SOLAR CELL (DSSC) EFFICIENCY

FINAL YEAR PROJECT SYMPOSIUM FST

2017 PROCEEDING NON-INDEX CO-AUTHOR

42. A REVIEW OF ZT MEASUREMENT FOR BULK THERMOELECTRIC MATERIAL

INTERNATIONAL CONFERENCE ON RECENT ADVANCEMENTS IN SCIENCE & TECHNOLOGY (ICORAST)

2017 PROCEEDING NON-INDEX CO-AUTHOR

43. A REVIEW ON FABRICATION AND ELECTRICAL CONTACT FOR SEGMENTED THERMOELECTRIC STRUCTURE

INTERNATIONAL CONFERENCE ON RECENT ADVANCEMENTS IN SCIENCE AND TECHNOLOGY (ICORAST)

2017 PROCEEDING NON-INDEX CO-AUTHOR

44. EFFECT OF GAS FLOW RATE ON STRUCTURAL PROPERTIES OF ZINC OXIDE NANOWIRES GROWN BY VAPOR- SOLID MECHANISM

INTERNATIONAL CONFERENCE ON NANO-ELECTRONIC TECHNOLOGY DEVICES AND MATERIALS 2015 (IC-NET 2015)

2017 PROCEEDING NON-INDEX CO-AUTHOR

45. THE SYNTHESIS OF CUPROUS OXIDE NANOWIRES IN THE PRESENCE OF OXYGEN USING A HOT TUBE THERMAL EVAPORATION METHOD

MALAYSIAN JOURNAL OF FUNDAMENTAL AND APPLIED SCIENCES

2015 JOURNAL SCOPUS CO-AUTHOR

46. A CATALYST-FREE GROWTH OF ALUMINUM-DOPED ZNO NANORODS BY THERMAL EVAPORATION

NANOSCALE RESEARCH LETTERS

2014 JOURNAL WOS MAIN AUTHOR

47. SYNTHESIS OF CU₂O AND ZNO NANOWIRES AND THEIR HETEROJUNCTION NANOWIRES BY THERMAL EVAPORATION: A SHORT REVIEW

JURNAL TEKNOLOGI

2014 JOURNAL SCOPUS CO-AUTHOR

48. ZINC OXIDE NANOWIRES SYNTHESIZED USING A HOT TUBE THERMAL EVAPORATION UNDER INTERMEDIATE HEATING PERIOD

MALAYSIAN JOURNAL OF FUNDAMENTAL AND APPLIED SCIENCES

2013 JOURNAL SCOPUS CO-AUTHOR

CONSULTATION

1. KOSIST 2018

FST USIM

2018

INTERNATIONAL

AWARDS/RECOGNITION

1. MASKYLINK: DISCOVERING ASTRONOMY PHENOMENA

1st International Development Research & Innovation Virtual Exhibition (IDRIVE)

2024 ANTARABANGSA GOLD

2. IOT ENHANCED SMART SENSORS: BRING OBSERVATORY CLOSER TO HOME

4TH INNOVATION BANK CHALLENGE 2024 (IBC 2024)

2024 UNIVERSITI GOLD

3. G-SWIFTSKAN: RAPID DETECTION OF GOLD AUTHENTICITY

SCEINCE AND TECHNOLOGY RESEARCH EXPO (SCITEX)

2024 UNIVERSITI SILVER

4. SUSTAINABLE LITHIUM-ION BATTERIES: A COMPARATIVE STUDY OF COFFEE POWDER AND RICE HUSK ACTIVATED CARBON

SCEINCE AND TECHNOLOGY RESEARCH EXPO (SCITEX)

2024 UNIVERSITI GOLD

5. COMPUTATIONAL SIMULATION AND EXPERIMENTAL ANALYSIS OF ACTIVATED CARBON FROM AGRICULTURE WASTE AS ELECTROMAGNETIC ABSORBER

Semarak International Research Article Competition 2024 (SIRAC 2024)

2024 ANTARABANGSA BEST PAPER AWARD

6. MASKYLINK: DISCOVERING ASTRONOMY PHENOMENA

VIRTUAL INNOVATION COMPETITION 2024

2024 ANTARABANGSA SILVER

7. LOT ENHANCED SMART SENSORS: BRINGING OBSERVATORY CLOSER TO HOME

Minggu Penyelidikan dan Inovasi 2024

2024 ANTARABANGSA GOLD

8. IOT ENHANCED SMART SENSORS: BRING OBSERVATORY CLOSER TO HOME

MINGGU PENYELIDIKAN INOVASI MPI 2024

2024 KEBANGSAAN GOLD

9. SOLAR-POWERED CHARGING STATION WITH LED LIGHT AND WIRELESS CHARGER

SCIENCE AND TECHNOLOGY RESERACH EXPO (SCITEX@20TH FST)

2023 UNIVERSITI BRONZE

10. MASKYLINK: DISCOVERING ASTRONOMY PHENOMENA

SCIENCE AND TECHNOLOGY RESERACH EXPO (SCITEX@20TH FST)

2023 UNIVERSITI GOLD

11. DEVELOPMENT OF AN AUTOMATED SOLAR-POWERED FLOOD MONITORING AND WARNING SYSTEM

SCIENCE AND TECHNOLOGY RESERACH EXPO (SCITEX@20TH FST)

2023 UNIVERSITI BRONZE

12. SMART BI-CAR

NATIONAL INNOVATION AND INVENTION COMPETITION 2022 (NIICE 2022)

2022 KEBANGSAAN SILVER

13. P-LEARN JEUX: A PHYSICS ELECTRONIC BOARD GAME

INTERNATIONAL SCIENCE AND SOCIAL SCIENCE INNOVATION COMPETITION (i-SIC IV)

2022 ANTARABANGSA SILVER

14. PLEARN JEUX: AN ELECTRONIC PHYSICS BOARD GAME

NATIONAL INNOVATION AND INVENTION COMPETITION 2022 (NIICE 2022)

2022

KEBANGSAAN

GOLD

AWARDS/RECOGNITION

15. ARDU ELECTROCHROMIC FILM FOR HOME SAFETY AND PRIVACY PURPOSE

32nd INTERNATIONAL INVENTION, INNOVATION & TECHNOLOGY EXHIBITION, MALAYSIA (ITEX 2021)

2021 ANTARABANGSA GOLD

16. ARDU-ELECTROCHROMIC FILM FOR HOME SAFETY AND PRIVACY PURPOSE

INNOVATION BANK CHALLENGE (IBC 2021)

2021 UNIVERSITI GOLD

17. R-GO PUZZLE GAME

INNOVATION BANK CHALLENGE (IBC 2021)

2021 UNIVERSITI CERTIFICATE OF APPRECIATION

18. ARDU-ELECTROCHROMIC FILM DEVICE FOR SAFETY AND PRIVACY PURPOSE

INTERNATIONAL EXHIBITION & SYMPOSIUM ON PRODUCTIVITY, INNOVATION, KNOWLEDGE & EDUCATION (I-SPIKE 2021)

2021 ANTARABANGSA SILVER

19. IOT-BASED SMART SWITCHABLE FILM: NEW SAFETY AND PRIVACY MANAGEMENT

NATIONAL INVENTION & INNOVATION COMPETITION 2021 (YOUTH)

2021 KEBANGSAAN SILVER

20. WASTE TO ENERGY MODULE

INTERNATIONAL INNOVATION COMPETITION INNOCOM II, 2021

2021 ANTARABANGSA CERTIFICATE OF APPRECIATION

21. WASTE TO ENERGY MODULE CATEGORY SCIENCE AND TECHNOLOGY

INTERNATIONAL INNOVATION COMPETITION INNOCOM II, 2021

2021 ANTARABANGSA BRONZE

22. CHEWDO-A HYGIENIC AND TASTY BARLEY EDIBLE SPOON AS AN ALTERNATIVE AMID COVID-19

INTERNATIONAL INNOVATION COMPETITION INNOCOM II, 2021

2021 ANTARABANGSA SILVER

23. FAST LAB: EDUCATIONAL SCIENCE KIT

MALAYSIA TECHNOLOGY EXPO 2020 (THE 19th INTERNATIONAL EXPO ON INVENTIONS AND INNOVATIONS) MTE 2020

2020 ANTARABANGSA GOLD

24. HOW DO WASTE MATERIAL PRODUCE ELECTRICITY (WASTE-TO-ENERGY)

INVENTION, INNOVATION AND DESIGN EXPOSITION 2020 (IIDEX2020)

2020 ANTARABANGSA SILVER

25. SMART BRAN DISPENSER FOR ANIMAL HUSBANDRY PURPOSE

8th APPRENTICE INNOVATION & RESEARCH EXHIBITION 2020 (AIREX)

2020 KEBANGSAAN BRONZE

26. ANUGERAH LIBATSAMA KOMUNITI - KATEGORI PROJEKT

2019 UNIVERSITY

27. AUTOMATED MINI GREENHOUSE CONTROLLER WITH ARDUINO

MELAKA INTERNATIONAL INTELLECTUAL EXPOSITION 2019

2019 ANTARABANGSA CERTIFICATE OF APPRECIATION

28. AUTOMATED MINI GREEN HOUSE CONTROLLER WITH ARDUINO

MELAKA INTERNATIONAL INTELLECTUAL EXPOSITION (MIIIEx 2019)

2019

ANTARABANGSA

BRONZE

AWARDS/RECOGNITION

29. OPTIMIZATION OF DYE EXTRACTION FROM PURPLE CABBAGE AND CORDYLINE FRUITKOSA IN DYE-SENSITIZED SOLAR CELL

30TH REGIONAL CONFERENCE ON SOLID STATE SCIENCE & TECHNOLOGY (RCSST18)

2018

ANTARABANGSA

CERTIFICATE OF APPRECIATION

30. SCIENCE AND TECHNOLOGY EMBRACING YOUTH GENERATION

FST: POSTGRADUATE COLLOQUIUM 2018 (KOSIST2018)

2018

UNIVERSITI

CERTIFICATE OF APPRECIATION

31. SESSION CHAIR

30TH REGIONAL CONFERENCE ON SOLID STATE SCIENCE & TECHNOLOGY (RCSST18)

2018

ANTARABANGSA

CERTIFICATE OF APPRECIATION