



**PROF. MADYA DR.
SYAZA BINTI AZHARI**

PENSYARAH UNIVERSITI DS14

CONTACT

Phone: 06-67986344

E-mail:
syaza@usim.edu.my

Faculty: Fakulti Sains
Dan Teknologi

SUPERVISION

PhD - Completed: 1, Ongoing: 2

Master - Completed: 2,
Ongoing: 2

AREAS OF EXPERTISE

Other Analytical Chemistry

Drinking Water Quality

Applied Chemistry

ACADEMIC QUALIFICATION

PhD in Sains Kimia (2017)

Bachelor in Sains Kimia (2011)

RESEARCH

**1. THE DEVELOPMENT OF ANTI-INFLAMMATORY AND
NATURAL-BASED MOUTH RINSE FROM STINGLESS BEE
HONEY**

2025

GERAN KPT

ON GOING

CO-RESEARCHER

**2. THE DEVELOPMENT OF RAPID IN-SITU ELECTROCHEMICAL
BIOSENSOR PROTOTYPE FOR BIOGENIC AMINE
DETERMINATION**

2024

GERAN KPT

ON GOING

MAIN RESEARCHER

**3. PROGRAM: ENZYME BASED ELECTROCHEMICAL
BIOSENSOR FOR DETECTION OF BIOGENIC AMINE IN HALAL
AND NON-HALAL SLAUGHTERED CHICKEN PROJEK:
MANAGEMENT OF HALAL ASSURANCE SYSTEM FOR CHICKEN
SLAUGHTERING INDUSTRY IN MALAYSIA**

2023

GERAN PENYELIDIKAN TRANSDISIPLINARI

ON GOING

MAIN
RESEARCHER

**4. PROGRAM: EMPOWERING FOOD SECURITY IN MALAYSIA:
A FRAMEWORK FOR TEMPORARY WAQF-BASED
CROWDFUNDING FOR ALTERNATIVE PROTEINS
ENTERPRISES PROJEK: HALAL GUIDELINES FOR
ALTERNATIVE PROTEINS ENTERPRISES**

2023

GERAN PENYELIDIKAN TRANSDISIPLINARI

ON GOING

CO-
RESEARCHER

5. PROGRAM: FABRICATION OF ENZYME BASED
ELECTROCHEMICAL BIOSENSOR FOR DETECTION OF
BIOGENIC AMINE IN HALAL AND NON-HALAL SLAUGHTERED
CHICKEN. PROJEK: MANAGEMENT OF HALAL ASSURANCE
SYSTEM FOR CHICKEN SLAUGHTERING INDUSTRY IN
MALAYSIA

2023 GERAN PENYELIDIKAN TRANSDISIPLINARI ON GOING CO-
RESEARCHER

RESEARCH

6. OPTICAL LIGHT PROPAGATION METHOD IN MICROPLASTIC WATER CONTAMINATION FOR RAPID WATER SENSING APPLICATION

2023 GERAN KPT ON GOING CO-RESEARCHER

7. A MECHANISM FOR Pb^{2+} ION DETECTION IN WATER VIA ELECTROCHEMICAL METHOD THROUGH INCORPORATION OF NEW BIS(INDOLYL)METHANE DERIVATIVES ON SBA-15 MODIFIED ELECTRODE

2023 GERAN KPT ON GOING CO-RESEARCHER

8. THE DEVELOPMENT OF ECO-CALDENT PROTOTYPE (AN ARTIFICIAL DENTAL CALCULUS) TRAINING KIT

2023 GERAN KPT ON GOING CO-RESEARCHER

9. AKTIVITI INSPIRASI SAINS DAN TEKNOLOGI MELALUI MODUL UDARA DAN PENCEMARAN KEPADA PELAJAR SERTA LATIHAN EKSPERIMENTASI SAINS KEPADA PARA GURU BAGI MENINGKATKAN KUALITI PENDIDIKAN MASYARAKAT LUAR BANDAR DI NEGERI SEMBILAN

2021 GERAN PENYELIDIKAN AGENSI KERAJAAN ON GOING MAIN RESEARCHER

10. PRILIMINARY STUDY ON THE MICROPLASTICS OCCURANCE IN SUNGAI BATANG BENAR, NILAI.

2021 GERAN PENYELIDIKAN USIM ON GOING CO-RESEARCHER

11. PHYSICOCHEMICAL AND BIOLOGICAL WATER QUALITY ASSESSMENT OF USIM LAKE FOR RECREATIONAL PURPOSES

2021 GERAN PENYELIDIKAN KHAS ON GOING CO-RESEARCHER

12. STRUCTURAL-OPTICAL PROPERTIES RELATIONSHIP OF GOLD NANOPARTICLES EMBEDDED IN POROUS ALUMINA MEMBRANE FOR CATALYTIC TREATMENT OF WASTEWATER

2020 GERAN KPT COMPLETED CO-RESEARCHER

13. CHARACTERIZATION AND ANALYTICAL OPTIMIZATION OF ELECTROCHEMICAL BIOSENSOR FOR DETERMINATION OF BIOGENIC AMINE IN FOOD SAMPLES.

2019 GERAN KPT COMPLETED MAIN RESEARCHER

14. MICROSCALE CHEMISTRY KIT FOR SCHOOLS

2019 GERAN PENYELIDIKAN AGENSI KERAJAAN COMPLETED MAIN RESEARCHER

15. PEMBERSIHAN AIR MUTANAJJIS DARI SISA KUMBAHAN MENURUT KERANGKA SYARIAH

2019 GERAN PENYELIDIKAN USIM COMPLETED CO-RESEARCHER

16. ADSORPTIVE SEPARATION UTILIZING SURFACE-MODIFIED CLINOPTILOLITE AND ACID-TREATED CLINOPTILOLITE IN TREATING PALM OIL MILL EFFLUENT (POME)

2019 GERAN PENYELIDIKAN USIM COMPLETED CO-RESEARCHER

17. ADSORPTION MECHANISM AND ELECTRICAL PROPERTIES OF CARBON AEROGEL EXTRACTED FROM SELECTED AGRICULTURE WASTE'S COCKTAIL IN UNDERSTANDING ITS HYDROGEN STORAGE BEHAVIOURS

2019 GERAN KPT ON GOING CO-RESEARCHER

18. MECHANISM OF BACTERIA INHIBITION AND ANTI-ADHESION TOWARDS THE PHYSICO-CHEMICAL PROPERTIES OF SOIL WATER DURING SERTU PROCESS

2018 GERAN PENYELIDIKAN KHAS COMPLETED MAIN RESEARCHER

19. GOLD NAOPARTICLE-BASED COLORIMETRIC ASSAY FOR HUMAN CHORIONIC GONADOTROPIN VIA PAPER-BASED MICROFLUIDIC DEVICES

2018 GERAN PENYELIDIKAN USIM COMPLETED CO-RESEARCHER

PUBLICATION

1. ASSESSMENT OF SOIL SUITABILITY FOR SERTU PURIFICATION BASED ON GEOLOGICAL AND FIQH VIEWS

JOURNAL OF FATWA MANAGEMENT AND RESEARCH

2026 JOURNAL SCOPUS CO-AUTHOR

2. HIGH REPRODUCIBILITY OF FACILE PB(II) ION ELECTROCHEMICAL SENSOR BASED ON BIM/SBA-15

SENSING AND BIO?SENSING RESEARCH (WOS - Q1)

2025 JOURNAL WOS MAIN AUTHOR

3. BIOMIMETIC KENAF-BASED DENTAL CALCULUS FOR PRECLINICAL TRAINING

36TH SOUTH EAST ASIA ASSOCIATION OF DENTAL EDUCATION

2025 PROCEEDING NON-INDEX MAIN AUTHOR

4. THE DEVELOPMENT OF ECOALDENT PROTOTYPE (AN ARTIFICIAL DENTAL CALCULUS)

4THI-DENT 2025THEME: ADVANCEMENTS IN DENTISTRY: SHAPING TOMORROW?S SMILES

2025 PROCEEDING MYCITE MAIN AUTHOR

5. BIS-INDOLYLMETHANE DERIVATIVE AS A POTENTIAL COLORIMETRIC SENSOR FOR COPPER ION DETECTION IN WATER

BRIDGING IDEAS TO IMPACT: A JOURNEY THROUGH DISCOVERY AND INNOVATION

2025 CHAPTER IN BOOK CO-AUTHOR

6. OPTIMIZATION OF NEWLY FABRICATED LACCASE BIOSENSOR BASED ON SINGLE-WALLED CARBON NANOTUBE FOR TYRAMINE DETECTION

JURNAL TEKNOLOGI (SCIENCES AND ENGINEERING)

2024 JOURNAL SCOPUS AND ERA CORRESPONDING AUTHOR

7. SYNTHESIS, CHARACTERISATION AND PRELIMINARY EVALUATION OF BIS-INDOLYLMETHANE DERIVATIVES AS COLORIMETRIC SENSOR FOR METAL IONS DETECTION

SAINS MALAYSIANA

2024 JOURNAL ISI AND SCOPUS CO-AUTHOR

8. BIS-INDOLYLMETHANE DERIVATIVES AS A POTENTIAL COLORIMETRIC SENSOR FOR CHROMIUM ION DETECTION IN WATER

BORNEO ENGINEERING & ADVANCED MULTIDISCIPLINARY INTERNATIONAL JOURNAL (BEAM)

2024 JOURNAL OTHER DATABASE CO-AUTHOR

9. PREPARATION AND MASS LOSS STUDY OF SODIUM CARBOXYMETHYL CELLULOSE CARBON AEROGEL PREPARED FROM NON-HAZARDOUS MATERIAL

MALAYSIAN JOURNAL OF SCIENCE, HEALTH AND TECHNOLOGY

2024 JOURNAL OTHER DATABASE CO-AUTHOR

10. FACILE PREPARATION OF GOLD NANOPARTICLES SILICA COMPOSITE FILM EMBEDDED IN ANODIZED ALUMINIUM OXIDE-GLASS SUBSTRATE

MALAYSIAN JOURNAL OF SCIENCE, HEALTH & TECHNOLOGY

2024 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

11. SEWAGE WATER TREATMENT AND ITS EFFECT ON THE CLEANLINESS OF WATER: A REVIEW FROM ISLAMIC AND SCIENCE PERSPECTIVE

JURNAL FIQH

2024 JOURNAL OTHER DATABASE MAIN AUTHOR

12. CABARAN KONTEMPORARI DALAM MEMBENTUK KEPIMPINAN DAN SAHSIAH PELAJAR: STRATEGI PENGETUA-PENGETUA DI UNIVERSITI SAINS ISLAM MALAYSIA

SEMINAR PENGURUSAN ASRAMA PERINGKAT KEBANGSAAN 2024 (SPARK 2024)

2024 PROCEEDING NON-INDEX MAIN AUTHOR

13. ISU DAN CABARAN MEDIA SOSIAL TERHADAP PEMBANGUNAN SAHSIAH PELAJAR: PENGALAMAN DALAM KALANGAN PENGETUA DI UNIVERSITI SAINS ISLAM MALAYSIA

SEMINAR PENGURUSAN ASRAMA PERINGKAT KEBANGSAAN (SPARK 2024)

2024 PROCEEDING NON-INDEX MAIN AUTHOR

PUBLICATION

14. MODUL KURSUS JURUSERTU PROFESIONAL

2024 BOOK

15. PENGGUNAAN SEMULA AIR KUMBAHAN MUTANAJJIS UNTUK TUJUAN TAHARAH: SATU ANALISA FIQAH DAN KAJIAN SAINS BERDASARKAN AMALAN RAWATAN KUMBAHAN OLEH INDAH WATER KONSORTIUM (IWK)

ULUM ISLAMIYYAH JOURNAL

2023 JOURNAL ERA CO-AUTHOR

16. SYNTHESIS AND CHARACTERISATION OF CARBON AEROGEL DERIVED FROM CARBOXYMETHYL CELLULOSE AS HYDROGEN STORAGE MATERIAL

JOURNAL OF PHYSICAL SCIENCE

2023 JOURNAL SCOPUS CORRESPONDING AUTHOR

17. ENZYME-BASED ELECTROCHEMICAL BIOSENSOR ON IMMOBILIZATION OF TYROSINASE ONTO CARBOXYL FUNCTIONALIZED CARBON NANOTUBE FOR DETECTION OF TYRAMINE

MALAYSIAN JOURNAL OF ANALYTICAL SCIENCES

2022 JOURNAL SCOPUS CORRESPONDING AUTHOR

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

MALAYSIAN JOURNAL OF ANALYTICAL SCIENCES

2022 JOURNAL SCOPUS CO-AUTHOR

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

MATERIALS SCIENCE FORUM

2022 JOURNAL ERA CO-AUTHOR

20. FOOD SPOILAGE: DETECTION OF BIOGENIC AMINES IN FOOD SAMPLES BY ENZYME-BASED ELECTROCHEMICAL BIOSENSORS

MALAYSIAN JOURNAL OF CHEMISTRY

2022 JOURNAL SCOPUS CORRESPONDING AUTHOR

21. NORMA BAHARU: USAHA SAINS MEMAHAMI KEPERLUAN MASYARAKAT

2022 BOOK

22. SUMBANGAN SAINS DAN TEKNOLOGI DALAM MEMBENDUNG JANGKITAN VIRUS COVID-19 DALAM NORMA BARU

NORMA BAHARU: USAHA SAINS MEMAHAMI KEPERLUAN MASYARAKAT

2022 CHAPTER IN BOOK MAIN AUTHOR

23. PENGENALAN KEPADA NORMA BAHARU: USAHA SAINS MEMAHAMI KEPERLUAN MASYARAKAT

NORMA BAHARU: USAHA SAINS MEMAHAMI KEPERLUAN MASYARAKAT

2022 CHAPTER IN BOOK MAIN AUTHOR

24. PERANAN SAINS KIMIA DALAM MELAKSANAKAN MAQASID SYARIAH SEMASA PANDEMIK.

ULUM ISLAMIYYAH JOURNAL

2021 JOURNAL ERA MAIN AUTHOR / CONTACT PERSON IN USIM

25. FATWA ANALYSIS OF SEWAGE WATER FROM MUTANAJJIS SOURCES

JOURNAL OF FATWA MANAGEMENT AND RESEARCH

2021 JOURNAL MYCITE CO-AUTHOR

26. MODIFIED ZEOLITE AS PURIFICATION MATERIAL IN WASTEWATER TREATMENT: A REVIEW

SCIENTIFIC RESEARCH JOURNAL

2021 JOURNAL MYCITE CO-AUTHOR

PUBLICATION

27. KEARIFAN MASYARAKAT MELAYU TERHADAP POKOK SENDUDUK DAN DAPATAN KAJIAN SAINSTIFIK TERHADAP SPESIES INI

KONVENSYEN KEARIFAN NUSANTARA KE-3: MEMARTABATKAN KEARIFAN MELAYU ISLAM NUSANTARA

2021 PROCEEDING NON-INDEX CO-AUTHOR

28. REMOVAL OF METHYLENE BLUE, ESCHERICHIA COLI AND PSEUDOMONUS AERUGINOSA BY ADSORPTION PROCESS OF ACTIVATED CARBON PRODUCED FROM MORINGA OLEIFERA BARK

MALAYSIAN JOURNAL OF SCIENCE HEALTH & TECHNOLOGY

2020 JOURNAL OTHERS DATABASE CO-AUTHOR

29. REVIEW ON APPLICATION OF GOLD NANOPARTICLES AND PAPER-BASED MICROFLUIDIC ANALYTICAL DEVICE IN DETECTION OF HUMAN CHORIONIC GONADOTROPIN

MALAYSIAN JOURNAL OF SCIENCE HEALTH & TECHNOLOGY

2020 JOURNAL OTHERS DATABASE CO-AUTHOR

30. EFFICIENTLY REMOVAL OF COPPER AND CADMIUM FROM WASTEWATER USING ACTIVATED CARBON PRODUCED FROM MORINGA OLEIFERA BARK.

INTERNATIONAL JOURNAL OF ENGINEERING RESEARCH & TECHNOLOGY (IJERT)

2020 JOURNAL OTHER DATABASE CO-AUTHOR

31. EFFICIENTLY REMOVAL OF COPPER AND CADMIUM FROM WASTEWATER USING ACTIVATED CARBON PRODUCED FROM MORINGA OLEIFERA BARK

INTERNATIONAL JOURNAL OF ENGINEERING RESEARCH & TECHNOLOGY (IJERT)

2020 JOURNAL OTHER DATABASE CO-AUTHOR

32. BIOGENIC AMINES AS FRESHNESS INDICATOR IN HALAL AND NON-HALAL SLAUGHTERED CHICKEN MEAT USING CHROMATOGRAPHIC APPROACH

MALAYSIAN JOURNAL OF SCIENCE HEALTH & TECHNOLOGY

2020 JOURNAL OTHERS DATABASE CORRESPONDING AUTHOR

33. ASSESSMENT OF DISULFIDE-LINKED GOLD NANOPARTICLES AS COLORIMETRIC SENSOR FOR HUMAN CHORIONIC GONADOTROPIN DETECTION

MALAYSIAN JOURNAL OF SCIENCE HEALTH & TECHNOLOGY

2020 JOURNAL OTHERS DATABASE CO-AUTHOR

34. DETERMINATION OF CADMIUM IONS USING SCHIFF-BASE MODIFIED CARBON PASTE ELECTRODE: A BOX-BEHNKEN DESIGN APPROACH

SOLID STATE PHENOMENA

2020 JOURNAL SCOPUS MAIN AUTHOR

35. ANTIBACTERIAL ACTIVITY OF SOIL WATER AND SOAP WATER DURING SERTU PROCESS

3RD INTERNATIONAL SEMINAR ON ISLAM AND SCIENCE 2020 (SAIS 2020)

2020 PROCEEDING NON-INDEX MAIN AUTHOR

36. PANDEMIK COVID-19: SUMBANGAN SAINS KIMIA DALAM MEMBENDUNG JANGKITAN VIRUS DAN MENJUNJUNG MAQASID SYARIAH

3RD INTERNATIONAL SEMINAR ON ISLAM AND SCIENCE 2020 (SAIS 2020) COVID-19:

2020 PROCEEDING NON-INDEX CO-AUTHOR

37. 3RD INTERNATIONAL SEMINAR ON ISLAM AND SCIENCE 2020 (SAIS 2020) COVID-19: IMPLICATION, IMPACT AND SOLUTION

3RD INTERNATIONAL SEMINAR ON ISLAM AND SCIENCE 2020 (SAIS 2020)

2020 PROCEEDING NON-INDEX EDITOR

38. REVIEW ON MICROFLUIDIC PAPER BASED ANALYTICAL DEVICES (µPADS) AND POSSIBLE APPLICATION BY EMPLOYING WASTE PAPER

JOURNAL OF FATWA MANAGEMENT AND RESEARCH

2019 JOURNAL MYCITE CO-AUTHOR

39. ANALYSIS OF CATION AND ANION IN SOIL WATER AND CLAY SOAP DURING SERTU PROCESS TOWARDS ANTIBACTERIAL ACTIVITY

INTERNATIONAL SEMINAR ON ISLAM AND SCIENCE 2019

2019 PROCEEDING NON-INDEX MAIN AUTHOR

PUBLICATION

40. EVALUATION OF GLUTATHIONE DISULFIDE-FUNCTIONALIZED GOLD NANOPARTICLES-BASED SENSOR FOR DETECTION OF HUMAN CHORIONIC GONADOTROPIN

SEMINAR ANTARABANGSA ISLAM DAN SAINS (SAIS 2019)

2019 PROCEEDING NON-INDEX CO-AUTHOR

41. DETERMINATION OF SELECTED TOXIC METAL (AS, CD, PB) AND ESSENTIAL (ZN, CU) ELEMENTS IN LOCAL CANNED SEAFOOD PRODUCTS

AIP CONFERENCE PROCEEDINGS

2018 JOURNAL SCOPUS CO-AUTHOR

42. DETERMINATION OF ETHANOL CONTENT IN LOCAL FERMENTED FOOD AND BEVERAGE SAMPLE (TAPAI AND TUAK)

CONTEMPORARY ISSUES: ISLAMIC AND SCIENCE

2018 CHAPTER IN BOOK CO-AUTHOR

43. FABRICATION OF A COMPOSITE MODIFIED GLASSY CARBON ELECTRODE: A HIGHLY SELECTIVE, SENSITIVE AND RAPID ELECTROCHEMICAL SENSOR FOR SILVER ION DETECTION IN RIVER WATER SAMPLES

ANALYTICAL METHODS

2016 JOURNAL WOS MAIN AUTHOR

44. DIFFERENTIAL PULSE ANODIC STRIPPING VOLTAMMETRY DETERMINATION OF COPPER (II) AT GLASSY CARBON ELECTRODE IN THE PRESENCE OF BIS(BENZYLIDENE)ETHYLENEDIAMINE AS A NOVEL COMPLEXING AGENT

MALAYSIAN JOURNAL OF ANALYTICAL SCIENCES

2015 JOURNAL SCOPUS MAIN AUTHOR

45. ENHANCEMENT OF STRIPPING TECHNIQUE FOR COPPER(II) DETECTION IN WATER SAMPLE USING N,N'-BIS(2-HYDROXY-4-METHOXYACETOPHENONE)ETHYLENEDIAMINE (BME)

MALAYSIAN JOURNAL OF FUNDAMENTAL AND APPLIED SCIENCES

2014 JOURNAL SCI MAIN AUTHOR

CONSULTATION

1. CONSULTATION PROJECT ON HALAL ASSESSMENT APTAMER

BIOGENES TECHNOLOGIES

2024

NATIONAL

2. PENJANA KEMENTERIAN PENGAJIAN TINGGI - PENSIJILAN PROFFESIONAL (KPT-PACE)

KEMENTERIAN PENGAJIAN TINGGI

2023

UNIVERSITY

3. PERUNDING PROJEK SISTEM KEDATANGAN PELAJAR USIM

USIM

2023

UNIVERSITY

4. PANEL HAKIM PERTANDINGAN GREEN TECHNOLOGY SHOW PERINGKAT WILAYAH PERSEKUTUAN PUTRAJAYA 2018

KEMENTERIAN PENDIDIKAN MALAYSIA

2018

NATIONAL

AWARDS/RECOGNITION

1. ANUGERAH INOVASI

2025 UNIVERSITY

2. ANUGERAH PENERIMA GERAN PENYELIDIKAN

2025 UNIVERSITY

3. ANUGERAH PERUNDINGAN

2025 UNIVERSITY

4. ANUGERAH PENCAPAIAN RPI TERTINGGI (10 TERBAIK)

2025 UNIVERSITY

5. ANUGERAH PENERBITAN JURNAL BERINDEKS

2025 UNIVERSITY

6. VISITING FELLOW (FELO PELAWAT)

CENTRE OF EXCELLENCE FOR MICRO SYSTEM TECHNOLOGY (MICTEC), UNIVERSITI MALAYSIA PERLIS

2025 NATIONAL

7. TRAINER / FACILITATOR

PROGRAM SCITECH4U: STEM CAMP MOSTI TAHUN 2025, FAKULTI SAINS DAN TEKNOLOGI, USIM

2025 UNIVERSITY

8. ELECTROCHEMICAL APTASENSOR INNOVATION FOR FOOD SAFETY MONITORING OF BIOGENIC AMINE DETECTION

THE INTERNATIONAL UNDERGRADUATE INNOVATION COMPETITION 2025 (IUIIC 2025)

2025 ANTARABANGSA GOLD

9. BIS-INDOLYLMETHANE DERIVATIVE AS A POTENTIAL COLORIMETRIC SENSOR FOR COPPER ION DETECTION IN WATER

International Innovation Competition of 6th Malaysia-Japan International Conference on Nanoscience,

2025 ANTARABANGSA GOLD

10. BIS-INDOLYLMETHANE DERIVATIVE AS A POTENTIAL COLORIMETRIC SENSOR FOR COPPER ION DETECTION IN WATER

HYBRID INVENTION, INNOVATION AND DESIGN COMPETITION 2025

2025 KEBANGSAAN GOLD

11. BIS-INDOLYLMETHANE DERIVATIVE AS A POTENTIAL COLORIMETRIC SENSOR FOR COPPER ION DETECTION IN WATER

2nd International Development, Research and Innovation Exhibition (iDRIVE 2025)

2025 ANTARABANGSA GOLD

12. BIS-INDOLYLMETHANE DERIVATIVE AS A POTENTIAL COLORIMETRIC SENSOR FOR COPPER ION DETECTION IN WATER

Penang International Invention, Innovation and Design (PIID) 2025

2025 ANTARABANGSA GOLD

13. GIN-X SHIELD

GINGERGEN: IGNITE INNOVATION COMPETITION

2025 UNIVERSITY CERTIFICATE OF APPRECIATION

14. ANUGERAH AHLI DEDIKASI

2024 UNIVERSITY

AWARDS/RECOGNITION

15. BIS-INDOLYLMETHANE DERIVATIVE AS A POTENTIAL COLORIMETRIC SENSOR FOR COPPER ION

4TH INNOVATION BANK CHALLENGE 2024 (IBC 2024)

2024 UNIVERSITY SILVER

16. CRABTERIES : BIODEGRADABLE CHITOSAN?ZINC BATTERY

4TH INNOVATION BANK CHALLENGE 2024 (IBC 2024)

2024 UNIVERSITY SILVER

17. THE DEVELOPMENT OF ECO-CALDENT PROTOTYPE (AN ARTIFICIAL DENTAL CALCULUS)

4TH INNOVATION BANK CHALLENGE 2024 (IBC 2024)

2024 UNIVERSITY BRONZE

18. BIS-INDOLYLMETHANE DERIVATIVES AS A POTENTIAL COLORIMETRIC SENSOR FOR COPPER ION DETECTION IN WATER

INNOVEX 2024: Innovative Solutions for a Sustainable and Equitable Future

2024 KEBANGSAAN GOLD

19. ECO-CALDENT: AN ARTIFICIAL DENTAL CALCULUS FOR ROOT SURFACE DEBRIDEMENT PRACTICAL

Pertandingan TED Talk Inovasi bersempena sambutan Hari Akademia USIM

2024 KEBANGSAAN BRONZE

20. BIS-INDOLYLMETHANE: SYNTHESIS, CHARACTERIZATION AND ELECTROCHEMICAL MANGANESE ION SENSOR DEVELOPMENT

RESEARCH & INNOVATION POSTER COMPETITION (RIPC) 2024

2024 UNIVERSITY GOLD

21. BIS-INDOLYLMETHANE DERIVATIVE AS A POTENTIAL COLORIMETRIC SENSOR FOR COPPER ION DETECTION IN WATER?

INTERNATIONAL CREATIVE INNOVATION IDEA COMPETITION (ICIIC) 2024

2024 ANTARABANGSA SILVER

22. PRESERVING FOOD FRESHNESS: THE APTASENSOR TYRAMINE DETECTOR

INNOVATION BANK CHALLENGE 2023 (IBC2023)

2023 UNIVERSITY GOLD

23. CHARACTERIZATION AND PERFORMANCE ANALYSIS OF EDIBLE PACKAGING AND COATING USING SODIUM ALGINATE (BROWN SEAWEED) FOR COMMERCIALIZATION

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

2023 UNIVERSITY SILVER

24. FABRICATION OF ENZYME BASED ELECTROCHEMICAL BIOSENSOR FOR DETECTION OF TYRAMINE IN HALAL AND NON-HALAL SLAUGHTERED CHICKEN

VIRTUAL INNOVATION CEMPETITION 2023

2023 KEBANGSAAN BRONZE

25. COMMERCIALIZATION OF ACTIVATED CARBON-BASED OIL AND GREASE FILTER (PURE DROP)

Penang International Invention, Innovation and Design (PIID) 2023

2023 ANTARABANGSA BRONZE

26. VISITING RESEARCHER

UNIVERSITI MALAYSIA PERLIS (UNIMAP)

2022 NATIONAL

27. ACHIEVING HALALAN TOYYIBAN: CHICKEN MEAT BIOSENSOR

INNOVATION BANK CHALLENGE (IBC 2022)

2022 UNIVERSITY GOLD

28. SYNTHESIS OF CARBON AEROGEL (CA) FROM CARBOXYMETHYL CELLULOSE (CMC) AS A HYDROGEN STORAGE.

INNOVATION BANK CHALLENGE (IBC 2022)

2022

UNIVERSITY

BRONZE

AWARDS/RECOGNITION

29. ANUGERAH QUDWAH HASANAH (AKADEMIK)

2021

UNIVERSITY

30. ANUGERAH PERKHIDMATAN CEMERLANG

2021

UNIVERSITY

31. ANUGERAH PENSYARAH PILIHAN

2021

UNIVERSITY

32. BEST SERVICES AWARD

2021

UNIVERSITY

33. THE GAME CHANGER AWARD

2021

UNIVERSITY

34. ANUGERAH HARTA INTELEK DAN PENGKOMERSILAN

2020

UNIVERSITY

35. FAST LAB: EDUCATIONAL SCIENCE KIT

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

2020

ANTARABANGSA

GOLD

36. ANUGERAH LIBATSAMA KOMUNITI KATEGORI PROJEK

2019

UNIVERSITY

37. FAST LAB: EDUCATION SCIENCE KIT

30th INTERNATIONAL INVENTION, INNOVATION & TECHNOLOGY EXHIBITION 2019 (ITEX 2019)

2019

ANTARABANGSA

GOLD

38. FAST LAB: SCIENCE EDUCATIONAL KIT

INTERNATIONAL CONFERENCE AND EXPOSITION ON INVENTIONS BY INSTITUTIONS OF HIGHER LEARNING (PECIPTA'19)

2019

ANTARABANGSA

GOLD