



## DR. LIYANA AMALINA BINTI ADNAN

PENSYARAH UNIVERSITI DS13

### CONTACT

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**E-mail:**

liyanamalina@usim.edu.my

**Faculty:** Kolej Permata  
Insan

### SUPERVISION

PhD - Completed: 0, Ongoing: 0

Master - Completed: 0,  
Ongoing: 0

## AREAS OF EXPERTISE

Analytical Environmental Chemistry

Development Of Traditional And Herbal Medicine  
(including Traditional Medicine And Natural Product)

Environmental Microbiology

## ACADEMIC QUALIFICATION

PhD in Kimia (2017)

Bachelor in Kimia Industri (2012)

## RESEARCH

**1. PEMBANGUNAN KESEDARAN, PERKONGSIAN DAN PANDUAN PENDIDIKAN ANAK-ANAK PINTAR BERBAKAT DI RUMAH MELALUI MODUL DAN PENGLIBATAN KOMUNITI DI DAERAH-DAERAH NEGERI SEMBILAN**

2025 GERAN PENYELIDIKAN PUSAT TANGGUNGJAWAB (PTJ) ON GOING  
CO-RESEARCHER

**2. ENHANCING LOGICAL REASONING AND IDENTIFYING TALENTS THROUGH GEOMETRY CONTESTS: A STUDY ON UNDERREPRESENTED STUDENTS IN MALAYSIA**

2025 GERAN ANTARABANGSA ON GOING CO-RESEARCHER

**3. PENGUMPULAN GRAFIK INFO SAINS BAGI MANUSKRIP PERUBATAN MELAYU: KITAB TAYYIB AL-IHSAN FI TIBB AL-INSAN**

2023 GERAN PENYELIDIKAN PUSAT TANGGUNGJAWAB (PTJ) ON GOING  
CO-RESEARCHER

**4. REMEDIES IN MALAY MEDICAL MANUSCRIPT MSS2515: ANALYSIS OF COMPOUND AND FUNCTION**

2023 GERAN PENYELIDIKAN PUSAT TANGGUNGJAWAB (PTJ) ON GOING  
CO-RESEARCHER

**5. MOLECULAR DESIGN AND EXTENSIVE STRUCTURE-ACTIVITY RELATIONSHIP (SAR) STUDIES OF  $\beta$ -CARBOLINE ANALOGUE AS ANTIMICROBIAL THERAPEUTIC AGENT**

2022

GERAN SEPADAN AGENSI KERAJAAN

ON GOING

CO-RESEARCHER

# RESEARCH

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## 6. MAPPING THE TENDENCIES OF SCIENCE AND MEMORIZATION OF THE QURAN AMONG GIFTED AND TALENTED MUSLIMS STUDENTS

2021 GERAN PENYELIDIKAN KHAS 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. ADSORPTIVE SEPARATION UTILIZING SURFACE-MODIFIED CLINOPTILOLITE AND ACID-TREATED CLINOPTILOLITE IN TREATING PALM OIL MILL EFFLUENT (POME)

2019 GERAN PENYELIDIKAN USIM COMPLETED CO-RESEARCHER

## 9. BIODEGRADATION PATHWAY OF NEW EMERGING POLLUTANTS BY NEWLY ISOLATED FUNGI

2018 GERAN PENYELIDIKAN HEADSTART PROGRAM COMPLETED MAIN RESEARCHER

## 10. COMPOSITION OF FATTY ACID AND BIOMARKER IN COWS AND GOATS' MILK USING GAS CHROMATOGRAPHY (GC/MS) & DNA-BASED ANALYTICAL METHODS FOR MILK AUTHENTICATION OF COW AND GOAT IN MALAYSIA

2018 GERAN PENYELIDIKAN HEADSTART PROGRAM COMPLETED CO-RESEARCHER

## 11. PEMERKASAAN SAINS ISLAM : PEMBANGUNAN MODUL KEM RAHSIA ALAM

2018 GERAN PENYELIDIKAN INDUSTRI COMPLETED CO-RESEARCHER

# PUBLICATION

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## 1. DENTAL DISEASE TREATMENT IN THE TIB MANUSCRIPT MSS2515 VIA HALAL MATERIAL USAGE

JOURNAL OF FATWA MANAGEMENT AND RESEARCH

2025 JOURNAL OTHER DATABASE MAIN AUTHOR

## 2. RECENT ADVANCES IN METHYLENE BLUE ADSORPTION USING CLINOPTILOLITE: MECHANISMS, MODIFICATIONS, AND FUTURE PERSPECTIVES

IOP CONFERENCE SERIES: EARTH AND ENVIRONMENTAL SCIENCE

2025 JOURNAL OTHER DATABASE MAIN AUTHOR

## 3. UNVEILING THE DENTAL BENEFITS OF CITRUS HYSTRIX AND LAGENARIA SICERARIA COMPOUNDS THROUGH ATTENUATED TOTAL REFLECTANCE-FOURIER TRANSFORM INFRARED SPECTROSCOPY

6TH INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE & INNOVATION 2025 (IJURECON 2025)

2025 PROCEEDING NON-INDEX CO-AUTHOR

## 4. ANALYZING THE DENTAL APPLICATIONS OF BRUCEA JAVANICA, SOLANUM LASIOCARPUM, AND POTASSIUM ALUM MIXTURE VIA ATTENUATED TOTAL REFLECTANCE-FOURIER TRANSFORM INFRARED SPECTROSCOPY

6TH INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE & INNOVATION 2025 (IJURECON 2025)

2025 PROCEEDING NON-INDEX CO-AUTHOR

## 5. MONITORING THE DECOLOURISATION OF METHYLENE BLUE DYE BY FUNGUS USING UV- VIS SPECTROSCOPY

6TH INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE & INNOVATION 2025 (IJURECON 2025)

2025 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 6. SAPONIFICATION USING EXTRACTED OIL FROM ELETTARIOPSIS CURTISII AND BRUCEA AMARISSIMA

6TH INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE & INNOVATION 2025 (IJURECON 2025)

2025 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 7. SUSTAINABILITY BIOETHANOL PRODUCTION FROM AGRICULTURAL WASTE WITH VALORISATION OF FERMENTATION RESIDUES IN MICROBIAL FUEL CELLS

6TH INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE & INNOVATION 2025 (IJURECON 2025)

2025 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 8. SCREENING OF ACTIVE COMPOUNDS OF BAECKEA FRUTESCENS USING ATTENUATED TOTAL REFLECTANCE-FOURIER TRANSFORM INFRARED SPECTROSCOPY (ATR-FTIR) AND ITS SAPONIFICATION PROCESS

MALAYSIAN JOURNAL OF CHEMISTRY (MJCHEM)

2024 JOURNAL SCOPUS CORRESPONDING AUTHOR

## 9. DESIGNING LEARNING USING INFOGRAPHIC FROM KITAB TURATH SYLLABUS

JURNAL SAINS INSANI

2024 JOURNAL INDEX BY MYCITE 2019 CO-AUTHOR

## 10. MALAY MEDICAL MANUSCRIPT OF THE BOOK OF TIB MSS2515: AN ANALYSIS OF SKIN DISEASES TREATMENT

INTERNATIONAL JOURNAL OF RELIGION

2024 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

## 11. AN ENVIRONMENTAL MICROBIOLOGY CLASSROOM FOR HYGIENIC AWARENESS AMONG HIGH SCHOOL STUDENTS

ASIAN JOURNAL OF FUNDAMENTAL AND APPLIED SCIENCES

2024 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

## 12. EFFECT OF NITROGEN SOURCE ON DECOLOURISATION OF METHYL ORANGE BY GANODERMA LUCIDUM

5TH INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE & INNOVATION 2024 (IJURECON 2024)

2024 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

**13. GAS CHROMATOGRAPHY-MASS SPECTROMETRY PROFILING OF EXTRACTED COMPOUNDS FOR GUM DISEASE TREATMENT: A METHODOLOGICAL APPROACH**

IJURECON 2024

2024

PROCEEDING

OTHER DATABASE

CORRESPONDING AUTHOR

# PUBLICATION

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## 14. HEXANE-ACETONE EXTRACTION TECHNIQUES FOR GAS CHROMATOGRAPHY-MASS SPECTROMETRY

IJURECON 2024

2024 PROCEEDING OTHER DATABASE CORRESPONDING AUTHOR

## 15. EXTRACTION TECHNIQUES FOR ANALYZING CITRUS HYSTRIX AND LAGENARIA SICERARIA COMPOUNDS FOR GUM DISEASE VIA GAS CHROMATOGRAPHY MASS SPECTROMETRY

IJURECON 2024

2024 PROCEEDING OTHER DATABASE CORRESPONDING AUTHOR

## 16. BIOACTIVE COMPOUND PROPERTIES OF KAPAL TERBANG PLANT VIA GC-MS ANALYSIS

I-STET 2024

2024 PROCEEDING OTHER DATABASE CORRESPONDING AUTHOR

## 17. FUNCTIONAL GROUP AND PHYTOCHEMICAL PROPERTIES DETECTION OF PEPEROMIA PELLUCIDA LEAVES EXTRACT

ASIAN JOURNAL OF FUNDAMENTAL AND APPLIED SCIENCES

2023 JOURNAL MYCITE CO-AUTHOR

## 18. POLYMER FORMULATION USED INCARBON MEMBRANE SYNTHESIS AND PERFORMANCE EVALUATION

ASIAN JOURNAL OF FUNDAMENTAL AND APPLIED SCIENCES

2023 JOURNAL OTHER DATABASE CO-AUTHOR

## 19. INSAN GLOBAL REACH: KOLEJ PERMATA INSAN'S STRATEGIC INTERNATIONALISATION PLAN

CREATIVE EDUCATION

2023 JOURNAL ERA CO-AUTHOR

## 20. ANALYSIS OF BAECKEA FRUTESCENS' ACTIVE COMPOUNDS USING ATTENUATED TOTAL REFLECTANCE-FOURIER TRANSFORM INFRARED SPECTROSCOPY (ATR-FTIR)

4TH INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE 2023 (IJURECON 2023)

2023 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 21. BIODEGRADATION ANALYSIS OF METHYL ORANGE BY GANODERMA LUCIDUM USING UV-VIS SPECTROPHOTOMETRY

4TH INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE 2023 (IJURECON 2023)

2023 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 22. FUNCTIONAL GROUP DETERMINATION OF NEPTUNIA OLERACEA KNOWN AS MALAYSIAN WATER MIMOSA (PUCUK SETANGKI) USING FOURIER-TRANSFORM INFRARED

4TH INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE 2023 (IJURECON 2023)

2023 PROCEEDING NON-INDEX CO-AUTHOR

## 23. DETERMINATION OF FUNCTIONAL GROUPS AND PHYTOCHEMICAL PROPERTIES OF VARIOUS CRUDE EXTRACT FROM PEPEROMIA PELLUCIDA

4TH INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE 2023 (IJURECON 2023)

2023 PROCEEDING NON-INDEX CO-AUTHOR

## 24. DETERMINATION OF ANTIOXIDANTS COMPOUNDS FROM PANGIUM EDULE

4TH INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE 2023 (IJURECON 2023)

2023 PROCEEDING NON-INDEX CO-AUTHOR

## 25. FUNCTIONAL GROUPS' CHARACTERIZATION OF OIL FROM BAECKEA FRUTESCENS USING ATTENUATED TOTAL REFLECTANCE-FOURIER TRANSFORM INFRARED SPECTROSCOPY (ATR-FTIR)

VIRTUAL INNOVATION COMPETITION 2023

2023 PROCEEDING NON-INDEX MAIN AUTHOR

## 26. AN ENVIRONMENTAL MICROBIOLOGY CLASSROOM FOR HYGIENIC AWARENESS AMONG HIGH SCHOOL STUDENTS

4TH INTERNATIONAL CONFERENCE ON RECENT ADVANCEMENTS IN SCIENCE AND TECHNOLOGY (ICORAST 2023)

2023 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

# PUBLICATION

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## 27. DETERMINATION OF FUNCTIONAL GROUPS AND PHYTOCHEMICAL PROPERTIES OF VARIOUS CRUDE EXTRACT FROM PEPEROMIA PELLUCIDA LEAVES

INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE (IJURECON 2023)

2023 PROCEEDING NON-INDEX CO-AUTHOR

## 28. DETERMINATION OF ANTIOXIDANTS COMPOUNDS FROM PANGIUM EDULE

INSAN INTERNATIONAL JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE (IJURECON 2023)

2023 PROCEEDING NON-INDEX CO-AUTHOR

## 29. EVALUATION OF PHYTOCHEMICALS AND ANTIOXIDANT ANALYSIS OF NEPETA CATARIA (CATNIP) LEAVES EXTRACTS

4TH INTERNATIONAL CONFERENCE ON RECENT ADVANCEMENTS IN SCIENCE AND TECHNOLOGY (ICORAST 2023)

2023 PROCEEDING MYCITE CORRESPONDING AUTHOR

## 30. MYPLANET APPLICATION: AN INNOVATIVE RECYCLING SYSTEM

INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE

2022 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 31. ROSSALACCA: A NATURAL-BASED INGREDIENTS SOAP FROM THE EXTRACT OF SALACCA FRUIT SEEDS AND SKIN

INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE

2022 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 32. SALT-WATER HEATER

INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE

2022 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 33. THE EFFECTIVENESS OF ENRICHMENT PROGRAMS AMONG SECONDARY GIFTED AND TALENTED MUSLIM STUDENTS

INTERNATIONAL CONFERENCE ON RESEARCH AND PRACTICES IN SCIENCE, TECHNOLOGY AND SOCIAL SCIENCES

2022 PROCEEDING NON-INDEX CO-AUTHOR

## 34. DETERMINATION OF PHENOLIC COMPOUNDS FROM TABEBUIA ROSEA (USIM SAKURA) TREES EXTRACTED OIL USING FOURIER-TRANSFORM INFRARED SPECTROSCOPY

INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE

2022 PROCEEDING NON-INDEX CO-AUTHOR

## 35. KECENDERUNGAN MINAT MURID PINTAR DAN BERBAKAT MUSLIM DALAM BIDANG SAINS

INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE 2022

2022 PROCEEDING NON-INDEX CO-AUTHOR

## 36. RESEARCH ON BLACK GINGER (KAEMPFERIA PARVIFLORA)

INSAN JUNIOR INTERNATIONAL RESEARCHERS CONFERENCE (IJURECON 2022)

2022 PROCEEDING NON-INDEX MAIN AUTHOR

## 37. FUNCTIONAL GROUPS? CHARACTERIZATION OF OIL FROM BAECKEA FRUTESCENS USING ATTENUATED TOTAL REFLECTANCE-FOURIER TRANSFORM INFRARED SPECTROSCOPY (ATR-FTIR)

3RD INSAN JUNIOR RESEARCHER INTERNATIONAL CONFERENCE 2022

2022 PROCEEDING NON-INDEX CO-AUTHOR

## 38. CHARACTERIZATION OF ACTIVE COMPOUNDS OF PEPEROMIA PELLUCIDA'S OIL USING GAS CHROMATOGRAPHY-MASS SPECTROMETRY (GC-MS)

3RD INSAN JUNIOR RESEARCHER INTERNATIONAL CONFERENCE (IJURECON 2022)

2022 PROCEEDING NON-INDEX CO-AUTHOR

## 39. BUILDING ASPIRATION FOR KOLEJ GENIUS INSAN WITH STRATEGIC INTERNATIONALISATION PLAN

SEMINAR PENGANTARABANGSAAN PENGAJIAN TINGGI 2022 (SPPT 2022)

2022 PROCEEDING NON-INDEX CO-AUTHOR

# PUBLICATION

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## 40. POLYMER FORMULATION USED IN CARBON MEMBRANE SYNTHESIS AND PERFORMANCE EVALUATION

3RD KUALA LUMPUR INTERNATIONAL CONFERENCE ON MANAGEMENT, EDUCATION AND TECHNOLOGY(KLIMET 2022)

2022 PROCEEDING NON-INDEX MAIN AUTHOR

## 41. PROFILING OF METABOLITES COMPOUND IN CHROMOLAENA ODORATA USING GAS CHROMATOGRAPHY-MASS SPECTRUM (GC-MS)

INSAN JUNIOR INTERNATIONAL RESEARCHERS CONFERENCE (IJURECON 2022)

2022 PROCEEDING OTHER DATABASE MAIN AUTHOR

## 42. COMPARING THE BIOACTIVE COMPOUNDS OF CRESCENTIA CUJETE TO PAINKILLER

INSAN JUNIOR INTERNATIONAL RESEARCHERS CONFERENCE (IJURECON 2022)

2022 PROCEEDING OTHER DATABASE MAIN AUTHOR

## 43. KIMIA

MODUL PENGAJARAN DAN PEMBELAJARAN SERTA PENTAKSIRAN BERSEPADU KURIKULUM PENDIDIKAN PINTAR BERBAKAT, INTEGRASI NAQLI DAN AQLI (IGED), ASAS 1

2022 CHAPTER IN BOOK MAIN AUTHOR

## 44. KIMIA

MODUL PENGAJARAN DAN PEMBELAJARAN SERTA PENTAKSIRAN BERSEPADU KURIKULUM PENDIDIKAN PINTAR BERBAKAT, INTEGRASI NAQLI DAN AQLI (IGED), ASAS 2

2022 CHAPTER IN BOOK MAIN AUTHOR

## 45. PHENOL REMOVAL FROM AQUEOUS SOLUTION BY ADSORPTION TECHNIQUE USING COCONUT SHELL ACTIVATED CARBON

TROPICAL AQUATIC AND SOIL POLLUTION

2021 JOURNAL OTHER DATABASE MAIN AUTHOR / CONTACT PERSON IN USIM

## 46. DECOLORIZATION OF REMAZOL BRILLIANT VIOLET 5R AND PROCION RED MX-5B BY TRICHODERMA SPECIES

TROPICAL AQUATIC AND SOIL POLLUTION

2021 JOURNAL OTHER DATABASE MAIN AUTHOR / CONTACT PERSON IN USIM

## 47. SEQUENCING AND ANNOTATED OF GOAT'S MILK USING BIOINFORMATICS TOOL: CLUSTALX

MALAYSIAN JOURNAL OF SCIENCE HEALTH & TECHNOLOGY

2021 JOURNAL OTHERS DATABASE CORRESPONDING AUTHOR

## 48. HOLOGRAPHIC STUDY IN BIOLOGY ASPECTS - A WHOLE NEW WAY OF LEARNING

ACTIVE LEARNING IN EDUCATION 4.0; STUDENTS AS OWNERS OF LEARNING

2021 CHAPTER IN BOOK CO-AUTHOR

## 49. INTERACTIVE LEARNING ACTIVITIES VIA PRACTICAL SESSION AND CYBER TECHNOLOGY

ACTIVE LEARNING IN EDUCATION 4.0; STUDENTS AS OWNERS OF LEARNING

2021 CHAPTER IN BOOK MAIN AUTHOR

## 50. ANALYSIS OF ANTIMICROBIAL COMPOUND IN ZIZIPHUS MAURITIANA EXTRACT USING ATTENUATED TOTAL REFLECTION-FOURIER TRANSFORM INFRARED (A TR-FTIR)

MALAYSIAN JOURNAL OF SCIENCE HEALTH & TECHNOLOGY

2020 JOURNAL OTHERS DATABASE CO-AUTHOR

## 51. COMPARISON OF ANTIOXIDANT COMPOUNDS BETWEEN GLYCINE MAX AND BOS TAURUS MILK

MALAYSIAN JOURNAL OF SCIENCE HEALTH & TECHNOLOGY

2020 JOURNAL OTHERS DATABASE MAIN AUTHOR / CONTACT PERSON IN USIM

## 52. IDENTIFICATION OF ANTIOXIDANTS AND ACTIVE COMPOUNDS IN COW'S MILK

MALAYSIAN JOURNAL OF SCIENCE HEALTH & TECHNOLOGY

2020 JOURNAL OTHERS DATABASE MAIN AUTHOR / CONTACT PERSON IN USIM

# PUBLICATION

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## 53. SPECTROSCOPY ANALYSIS OF ANTIMICROBIAL COMPOUND IN CENTELLA ASIATICA EXTRACT

MALAYSIAN JOURNAL OF SCIENCE HEALTH & TECHNOLOGY

2020 JOURNAL OTHERS DATABASE CO-AUTHOR

## 54. IDENTIFICATION OF ANTIOXIDANTS AND ACTIVE COMPOUNDS IN COW'S MILK

KOLOKIUUM SISWAZAH FAKULTI SAINS DAN TEKNOLOGI 2020

2020 PROCEEDING NON-INDEX CO-AUTHOR

## 55. DNA-BASED METHOD FOR CAPRA AEGAGRUS HIRCUS OF RAW AND FACTORY-MADE MILK

INSAN JUNIOR RESEARCHER INTERNATIONAL CONFERENCE

2020 PROCEEDING NON-INDEX CO-AUTHOR

## 56. DNA-BASED METHOD FOR CAPRA AEGAGRUS HIRCUS OF RAW AND FACTORY-MADE MILK

KOLOKIUUM SISWAZAH FAKULTI SAINS DAN TEKNOLOGI 2020

2020 PROCEEDING NON-INDEX CO-AUTHOR

## 57. COMPARISON OF ANTIOXIDANT COMPOUNDS BETWEEN GLYCINE MAX AND BOS TAURUS MILK

KOLOKIUUM SISWAZAH FAKULTI SAINS DAN TEKNOLOGI 2020

2020 PROCEEDING NON-INDEX CO-AUTHOR

## 58. SPECTROSCOPY ANALYSIS OF ANTIMICROBIAL COMPOUND IN CENTELLA ASIATICA EXTRACT

KOLOKIUUM SISWAZAH FAKULTI SAINS DAN TEKNOLOGI 2020

2020 PROCEEDING NON-INDEX CO-AUTHOR

## 59. ANALYSIS OF ANTIMICROBIAL COMPOUND IN ZIZIPHUS MAURITIANA EXTRACT USING ATTENUATED TOTAL REFLECTION-FOURIER TRANSFORM INFRARED (ATR-FTIR)

KOLOKIUUM SISWAZAH FAKULTI SAINS DAN TEKNOLOGI 2020

2020 PROCEEDING NON-INDEX CO-AUTHOR

## 60. IDENTIFYING DNA SEQUENCES OF COMMERCIALIZED GOAT'S MILK AND FRESH GOAT'S MILK FROM DATABASE VIA BASIC LOCAL ALIGNMENT SEARCH TOOL (BLAST)

INSAN JUNIOR RESEARCHER INTERNATIONAL CONFERENCE

2020 PROCEEDING NON-INDEX CO-AUTHOR

## 61. CHARACTERIZATION OF FATTY ACIDS IN COW'S MILK

INSAN JUNIOR RESEARCHER INTERNATIONAL CONFERENCE

2020 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 62. DECOLORIZATION OF METHYLENE BLUE USING FUNGAL STRAIN

INSAN JUNIOR RESEARCHER INTERNATIONAL CONFERENCE

2020 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 63. BIODECOLORIZATION OF METHYLENE BLUE DYE BY FUNGAL STRAIN FA3

13TH SEMINAR ON SCIENCE & TECHNOLOGY (S&T 2020)

2020 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 64. REMOVAL OF MACRO AND MICRO WASTES USING WATER BOAT COLLECTOR

INSAN JUNIOR RESEARCHER INTERNATIONAL CONFERENCE

2020 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 65. BIODEGRADATION OF METHYLENE BLUE USING TRICHODERMA REESEI SP.

INSAN JUNIOR RESEARCHER INTERNATIONAL CONFERENCE

2020 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

# PUBLICATION

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## 66. MODUL 4: SISTEM PENAPISAN AIR

MENZAHIR RAHSIA ALAM

2020 CHAPTER IN BOOK MAIN AUTHOR

## 67. IMPACT OF PHYSICO-CHEMICAL PARAMETERS ON THE BIODEGRADATION OF BENZO(A)PYRENE BY PLEUROTUS ERYNGII F032

JSASS-JURNAL SULTAN ALAUDDIN SULAIMAN SHAH

2019 JOURNAL MYJURNAL MAIN AUTHOR

## 68. INNOVATION FOR SUSTAINABILITY AND GREEN TECHNOLOGY-DEGRADATION OF INANIMATE FORMS

2019 BOOK EDITOR

## 69. BIODEGRADATION PATHWAY OF HEXACHLOROCYCLOHEXANE MEDIATED BY ASCOMYCETE FUNGUS TRICHODERMA LIXII F21

INNOVATION FOR SUSTAINABILITY AND GREEN TECHNOLOGY-DEGRADATION OF INANIMATE FORMS

2019 CHAPTER IN BOOK MAIN AUTHOR

## 70. CHALLENGED WITH VIBRIO VULNIFICUS OF STARVED EPINEPHELUS FUSCOGUTTATUS ANALYSED BY GC?MS

INNOVATION FOR SUSTAINABILITY AND GREEN TECHNOLOGY-DEGRADATION OF INANIMATE FORMS

2019 CHAPTER IN BOOK CO-AUTHOR

## 71. IMPACT OF PHYSICO-CHEMICAL PARAMETERS ON THE BIODEGRADATION OF BENZO(A)PYRENE BY PLEUROTUS ERYNGII F032

5TH INTERNATIONAL CONFERENCE ON POSTGRADUATE RESEARCH 2018 (5TH ICPR 2018)

2018 PROCEEDING NON-INDEX MAIN AUTHOR

## 72. RAPID BIOREMEDIATION OF ALIZARIN RED 5 AND QUINIZARINE GREEN SS DYES USING TRICHODERMA LIXII F21 MEDIATED BY BIOSORPTION AND ENZYMATIC PROCESSES

BIOPROCESS AND BIOSYSTEMS ENGINEERING: BIOREACTORS, UPSTREAM AND DOWNSTREAM PROCESSES, MEASUREMENT AND CONTROL

2017 JOURNAL ERA MAIN AUTHOR

## 73. BIODEGRADATION PATHWAY OF ACID RED 27 BY WHITE- ROT FUNGUS ARMILLARIA SP. F022 AND PHYTOTOXICITY EVALUATION

CLEAN: SOIL, AIR, WATER

2016 JOURNAL ERA MAIN AUTHOR

## 74. PYRENE METABOLISM BY NEW SPECIES ISOLATED FROM SOIL RHIZOCTONIA ZEAЕ SOL3

WATER, AIR, AND SOIL POLLUTION

2015 JOURNAL SCOPUS CO-AUTHOR

## 75. MECHANISM OF TRIPHENYLMETHANE CRESOL RED DEGRADATION BY TRICHODERMA HARZIANUM M06

BIOPROCESS AND BIOSYSTEMS ENGINEERING

2015 JOURNAL SCOPUS CO-AUTHOR

## 76. METABOLITES CHARACTERISATION OF LACCASE MEDIATED REACTIVE BLACK 5 BIODEGRADATION BY FAST GROWING ASCOMYCETE FUNGUS TRICHODERMA ATROVIRIDE F03

INTERNATIONAL BIODETERIORATION AND BIODEGRADATION

2015 JOURNAL ERA MAIN AUTHOR

## 77. BIODEGRADATION OF BIS-AZO DYE REACTIVE BLACK 5 BY WHITE-ROT FUNGUS TRAMETES GIBBOSA SP. WRF 3 AND ITS METABOLITE CHARACTERIZATION

WATER, AIR & SOIL POLLUTION

2014 JOURNAL WOS MAIN AUTHOR

## 78. MICROBIAL DECOLORIZATION OF AN AZO DYE REACTIVE BLACK 5 USING WHITE-ROT FUNGUS PLEUROTUS ERYNGII F032

WATER, AIR, & SOIL POLLUTION

2013 JOURNAL WOS CO-AUTHOR

# AWARDS/RECOGNITION

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## 1. STAF CONTOH (KATEGORI AKADEMIK)

2025 UNIVERSITY

## 2. ACADEMIC ADVISOR

KOLEJ PERMATA INSAN, UNIVERSITI SAINS ISLAM MALAYSIA AND FACULTY OF SCIENCE, UNIVERSITI MALAYA

2025 UNIVERSITY

## 3. ACADEMIC ADVISOR

KOLEJ PERMATA INSAN, USIM

2025 UNIVERSITY

## 4. ACADEMIC PROGRAM ADVISOR

USIMQUEST

2025 NATIONAL

## 5. ACADEMIC PROGRAM ADVISOR

PEMBANGUN MODUL PROGRAM PERKHEMAHAN CUTI SEKOLAH (PPCS)

2025 NATIONAL

## 6. PHYTOKSUM SHIELD?: HERBAL TONE-UP SUNSCREEN FOR RADIANT PROTECTION

INVENTION, INNOVATION & DESIGN EXPOSITION COMPETITION 2025 (IIDEX2025)

2025 ANTARABANGSA SILVER

## 7. INOVASI LESTARI AIR MUSTAMAL (ILAM) - BEST INNOVATION AWARD

INSAN Junior Researchers International Conference (IJURECON 2025)

2025 ANTARABANGSA

## 8. INOVASI LESTARI AIR MUSTAMAL (ILAM)

INSAN Junior Researchers International Conference (IJURECON 2025)

2025 ANTARABANGSA BRONZE

## 9. SAPONIFICATION USING EXTRACTED OIL FROM ELEFTARIOPSIS CURTISII AND BRUCEA AMARISSIMA

KUALA LUMPUR INTERNATIONAL INVENTION & INNOVATION SYMPOSIUM (KL3IS) 2025

2025 ANTARABANGSA GOLD

## 10. SAPONIFICATION USING EXTRACTED OIL FROM ELEFTARIOPSIS CURTISII AND BRUCEA AMARISSIMA

SCIENCE CASTLE ASIA 2025

2025 ANTARABANGSA SILVER

## 11. SAPONIFICATION USING EXTRACTED OIL FROM ELEFTARIOPSIS CURTISII AND BRUCEA AMARISSIMA

2nd INTERNATIONAL DEVELOPMENT, RESEARCH & INNOVATION EXHIBITION (iDRIVE'25)

2025 ANTARABANGSA SILVER

## 12. FROM NUTRACEUTICAL TO PERSONAL PRODUCT: THE POTENTIAL OF CANARIUM ODONTOPHYLLUM

INSAN Junior Researchers International Conference (IJURECON 2025)

2025 ANTARABANGSA SILVER

## 13. INVESTIGATING THE POTENTIAL OF ACTIVATED CARBON FROM PISTACHIO SHELL TO TREAT DYE MATERIALS IN WASHING MACHINE WASTE WATER: REMOVAL OF METHYL ORANGE DYE

INSAN Junior Researchers International Conference (IJURECON 2025)

2025 ANTARABANGSA SILVER

**14. SUSTAINABILITY BIOETHANOL PRODUCTION FROM AGRICULTURAL WASTE WITH VALORISATION OF FERMENTATION RESIDUES IN MICROBIAL FUEL CELLS**

INSAN Junior Researchers International Conference (IJURECON 2025)

2025

ANTARABANGSA

BRONZE

# AWARDS/RECOGNITION

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## 15. ANALYZING THE DENTAL APPLICATIONS OF BRUCEA JAVANICA, SOLANUM LASIOCARPUM, AND POTASSIUM ALUM MIXTURE VIA ATTENUATED TOTAL REFLECTANCE-FOURIER TRANSFORM INFRARED SPECTROSCOPY

INSAN Junior Researchers International Conference (ijURECON 2025)

2025 ANTARABANGSA GOLD

## 16. UNVEILING THE DENTAL BENEFITS OF CITRUS HYSTRIX AND LAGENARIA SICERARIA COMPOUNDS THROUGH ATTENUATED TOTAL REFLECTANCE-FOURIER TRANSFORM INFRARED SPECTROSCOPY

INSAN Junior Researchers International Conference (ijURECON 2025)

2025 ANTARABANGSA GOLD

## 17. SAPONIFICATION USING EXTRACTED OIL FROM ELETTARIOPSIS CURTISII AND BRUCEA AMARISSIMA

INSAN Junior Researchers International Conference (ijURECON 2025)

2025 ANTARABANGSA GOLD

## 18. SAPONIFICATION USING EXTRACTED OIL FROM ELETTARIOPSIS CURTISII AND BRUCEA AMARISSIMA

MELAKA VOCATIONAL INTERNATIONAL INNOVATION COMPETITION (MVCIC) 2025

2025 ANTARABANGSA GOLD

## 19. SAPONIFICATION USING EXTRACTED OIL FROM ELETTARIOPSIS CURTISII AND BRUCEA AMARISSIMA

INTERNATIONAL INVENTION, INNOVATION, AND DESIGN COMPETITION 2025

2025 ANTARABANGSA GOLD

## 20. SAPONIFICATION USING EXTRACTED OIL FROM ELETTARIOPSIS CURTISII AND BRUCEA AMARISSIMA

VIRTUAL INNOVATION COMPETITION 2025

2025 ANTARABANGSA GOLD

## 21. MONITORING THE DECOLOURISATION OF METHYLENE BLUE DYE USING UV-VIS SPECTROSCOPY

INSAN Junior Researchers International Conference (ijURECON 2025)

2025 ANTARABANGSA GOLD

## 22. ANUGERAH PENILAI BERKUALITI

2024 UNIVERSITY

## 23. ANUGERAH PENYELIA PENYELIDIKAN MURID TERBAIK

2024 UNIVERSITY

## 24. ANUGERAH INOVASI TERBAIK BULAN APRIL

2024 UNIVERSITY

## 25. ANUGERAH INOVASI TERBAIK BULAN JUN

2024 UNIVERSITY

## 26. ANUGERAH INOVASI TERBAIK SEPTEMBER

2024 UNIVERSITY

## 27. ANUGERAH INOVASI TERBAIK OKTOBER

2024 UNIVERSITY

## 28. ANUGERAH PENULIS JURNAL CEMERLANG MEI

2024 UNIVERSITY

# AWARDS/RECOGNITION

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## 29. ANUGERAH PENULIS JURNAL CEMERLANG BULAN JUN

2024 UNIVERSITY

## 30. KAEMPFERIA PARVIFLORA'S POTENTIAL IN NATURAL CLEANSING

WORLD SUSTAINABLE DEVELOPMENT GOAL CHALLENGE 2024

2024 ANTARABANGSA GOLD

## 31. KAEMPFERIA PARVIFLORAS POTENTIAL IN NATURAL CLEANSING

EAST COAST SCHOOLS EDUCATION RESEARCH SYMPOSIUM (ECSERS) 2024

2024 KEBANGSAAN GOLD

## 32. KAEMPFERIA PARVIFLORAS POTENTIAL IN NATURAL CLEANSING

SMART INNOVATION COMPETITION 2024 INTERNATIONAL LEVEL

2024 ANTARABANGSA GOLD

## 33. KAEMPFERIA PARVIFLORAS POTENTIAL IN NATURAL CLEANSING

VIRTUAL INNOVATION COMPETITION 2024

2024 ANTARABANGSA GOLD

## 34. IDENTIFICATION AND EXTRACTION OF CHEMICAL COMPOUNDS FROM ELEFTTARIOPSIS CURTISII AND BRUCEA AMARISSIMA

INTERNATIONAL INVENTION & INNOVATIVE COMPETITION (InIIC) 2024

2024 ANTARABANGSA GOLD

## 35. ACADEMIC ADVISOR

KOLEJ PERMATA INSAN

2023 UNIVERSITY

## 36. FUNCTIONAL GROUPS? CHARACTERIZATION OF OIL FROM BAECKEA FRUTESCENS USING (ATR-FTIR)

Innovative Research, Invention and Application Exhibition

2023 ANTARABANGSA GOLD

## 37. ANALYSIS OF ACTIVE COMPOUNDS OF BAECKEA FRUTESCENS USING (ATR-FTIR)

STEM INVENTION & INNOVATION COMPETITION 2023

2023 ANTARABANGSA GOLD

## 38. MYPLANET APPLICATION: AN INNOVATIVE RECYCLING SYSTEM

1ST INTERNATIONAL MILLENNIPRENEUR INNOVATION & COMMERCIALIZATION EXHIBITION

2023 ANTARABANGSA GOLD

## 39. MYPLANET APPLICATION: AN INNOVATIVE RECYCLING SYSTEM

SDG INNOVATION@IBSD 2023

2023 ANTARABANGSA GOLD

## 40. MYPLANET APPLICATION: AN INNOVATIVE RECYCLING SYSTEM

Malaysia Grand Invention Expo (MaGIEx) 2023

2023 ANTARABANGSA GOLD

## 41. MYPLANET APPLICATION: AN INNOVATIVE RECYCLING SYSTEM

STEM INVENTION & INNOVATION COMPETITION 2023

2023 ANTARABANGSA GOLD

**42. MYPLANET: THE ULTIMATE RECYCLING APPLICATION**

INTERNATIONAL INVENTION, INNOVATION AND DESIGN COMPETITION 2023

2023 ANTARABANGSA GOLD

# AWARDS/RECOGNITION

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## 43. COMPILATION OF TRADITIONAL MALAY MEDICINE INFOGRAPHIC WITH REFERENCE TO MODERN MEDICAL KNOWLEDGE

INNOVATION BANK CHALLENGE 2023 (IBC2023)

2023 UNIVERSITI GOLD

## 44. FUNCTIONAL GROUPS CHARACTERIZATION OF OIL FROM KAEMPFERIA PARVIFLORA USING ATTENUATED TOTAL REFLECTANCE-FOURIER TRANSFORM INFRARED SPECTROSCOPY (ATR-FTIR)

Insan Junior Researchers International Conference (IJURECON 2023)

2023 ANTARABANGSA GOLD

## 45. ANALYSIS OF BAECKEA FRUTESCENS? ACTIVE COMPOUNDS USING ATTENUATED TOTAL REFLECTANCE-FOURIER TRANSFORM INFRARED SPECTROSCOPY (ATRFTIR) AND IT'S SAPONIFICATION PROCESS

Insan Junior Researchers International Conference (IJURECON 2023)

2023 ANTARABANGSA SILVER

## 46. FUNCTIONAL GROUPS? CHARACTERIZATION OF BAECKEA FRUTESCENS USING ATTENUATED TOTAL REFLECTANCE-FOURIER TRANSFORM INFRARED SPECTROSCOPY

VIRTUAL INNOVATION CEMPETITION 2023

2023 KEBANGSAAN GOLD

## 47. FUNCTIONAL GROUPS? CHARACTERIZATION OF OIL FROM BAECKEA FRUTESCENS USING (ATR-FTIR)

INTERNATIONAL CONFERENCE OF EDUCATION & FUTURISTIC INNOVATION (ICEFI) 2023

2023 ANTARABANGSA SILVER

## 48. MYPLANET APPLICATION: AN INNOVATIVE RECYCLING SYSTEM

INTERNATIONAL CONFERENCE OF EDUCATION & FUTURISTIC INNOVATION (ICEFI) 2023

2023 ANTARABANGSA GOLD

## 49. BAECKEA FRUTESCENS-BASED SOAP: A SUSTAINABLE PALM OIL ALTERNATIVE IN SOAP PRODUCTION

INVENTION, INNOVATION & DESIGN EXPOSITION 2023 (IIDEX 2023)

2023 ANTARABANGSA GOLD

## 50. BIODEGRADATION ANALYSIS OF METHYL ORANGE BY GANODERMA LUCIDUM USING UV-VIS SPECTROPHOTOMETRY AND ATTENUATED TOTAL REFLECTANCE- FOURIER TRANSFORM INFRARED SPECTROSCOPY (ATR-FTIR)

Insan Junior Researchers International Conference (IJURECON 2023)

2023 ANTARABANGSA GOLD

## 51. ANALYSIS OF ACTIVE COMPOUNDS OF BAECKEA FRUTESCENS USING (ATR-FTIR) AND ITS SAPONIFICATION PROCESS

INTERNATIONAL INVENTION & INNOVATIVE COMPETITION (InIIC SERIES 2/2023)

2023 ANTARABANGSA GOLD

## 52. MEREKABENTUK MAKLUMAT GRAFIK UNTUK RAWATAN GOUT DENGAN MENGGUNAKAN DAUN KETUMBAR (CORIANDUM SATIVUM)

INTERNATIONAL CONFERENCE 2022 (IJURECON 2022)

2022 ANTARABANGSA GOLD

## 53. MYPLANET APPLICATION: AN INNOVATIVE RECYCLING SYSTEM

World Youth STEM Invention Innovation (WYSII 2022)

2022 KEBANGSAAN GOLD

## 54. KECENDERUNGAN MINAT MURID PINTAR DAN BERBAKAT MUSLIM DALAM BIDANG SAINS

INTERNATIONAL CONFERENCE 2022 (IJURECON 2022)

2022 ANTARABANGSA GOLD

## 55. CHARACTERIZATION OF ACTIVE COMPOUNDS OF PEPPEROMIA PELLUCIDA?S OIL USING GAS CHROMATOGRAPHY-MASS SPECTROMETRY (GC-MS)

INTERNATIONAL CONFERENCE 2022 (IJURECON 2022)

2022 ANTARABANGSA GOLD

**56. FUNCTIONAL GROUPS CHARACTERIZA OF OIL FROM BAECKEA FRUTESCENS USING ATTENUA TOTAL REFLECTANCE-FOURIER TRANSFORM INFRARED SPECTROSCOPY (ATR-FTIR)**

International Virtual Educational Design, Invention & Innovation Competition 2022 (IVEDIIC2022)

2022

KEBANGSAAN

SILVER

# AWARDS/RECOGNITION

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## 57. MYPLANET: AN INNOVATIVE RECYCLING APPLICATION

INOVAS 2022: Human Well-being & Sustainable Community

2022 UNIVERSITI SILVER

## 58. MYPLANET APPLICATION: AN INNOVATIVE RECYCLING SYSTEM

International Virtual Educational Design, Invention & Innovation Competition 2022 (iVEDIIC2022)

2022 KEBANGSAAN GOLD

## 59. MYPLANET: THE ULTIMATE RECYLING APPLICATION

VIRTUAL INNOVATION COMPETITION 3rd EDITION

2022 KEBANGSAAN GOLD

## 60. FUNCTIONAL GROUPS? CHARACTERIZATION OF OIL FROM BAECKEA FRUTESCENS USING ATTENUATED TOTAL REFLECTANCE-FOURIER TRANSFORM INFRARED SPECTROSCOPY (ATR-FTIR)

INTERNATIONAL CONFERENCE 2022 (IJURECON 2022)

2022 ANTARABANGSA

## 61. PROFILING OF METABOLITES COMPOUND IN CHROMOLAENA ODORATA USING GAS CHROMATOGRAPHY- MASS SPECTROMETRY (GC-MS)

INTERNATIONAL CONFERENCE 2022 (IJURECON 2022)

2022 ANTARABANGSA

## 62. DESIGNING AN INFOGRAPHIC OF THE MEANING BEHIND THE COLOUR OF URINE

INTERNATIONAL CONFERENCE 2022 (IJURECON 2022)

2022 ANTARABANGSA

## 63. DESIGNING AN INFOGRAPHIC FOR TREATMENT OF VOMITING AND NAUSEA BY USING LOCAL HERBS

INTERNATIONAL CONFERENCE 2022 (IJURECON 2022)

2022 ANTARABANGSA GOLD

## 64. DESIGNING AN INFOGRAPHIC FOR DIAGNOSIS OF DISEASES OF GALLSTONE

INTERNATIONAL CONFERENCE 2022 (IJURECON 2022)

2022 ANTARABANGSA GOLD

## 65. DESIGNING AN INFOGRAPHIC FOR TREATMENT OF GINGIVITIS BY USING SALT AND HONEY

INTERNATIONAL CONFERENCE 2022 (IJURECON 2022)

2022 ANTARABANGSA GOLD

## 66. COMPARING THE BIOACTIVE COMPOUNDS OF CRESCENTIA CUJETE TO PAINKILLER

INTERNATIONAL CONFERENCE 2022 (IJURECON 2022)

2022 ANTARABANGSA GOLD

## 67. RESEARCH ON BLACK GINGER (KAEMPFERIA PARVIFLORA)

INTERNATIONAL CONFERENCE 2022 (IJURECON 2022)

2022 ANTARABANGSA GOLD

## 68. BIODEGRADATION OF METHYLENE BLUE DYE BY TRICHODERMA REESERSP.

INTERNATIONAL RESEARCH INVENTION, INNOVATION AND EXHIBITION (I-RIE 2021)

2021 ANTARABANGSA BRONZE

## 69. HYGIENE TRAVEL SOAP FROM DABAI FRUITS OIL

INTERNATIONAL RESEARCH INVENTION, INNOVATION AND EXHIBITION (I-RIE 2021)

2021 ANTARABANGSA GOLD

**70. IDENTIFICATION OF ANTIOXIDANT COMPOUNDS OF HYGIENIC TRAVEL SOAP FROM DABAI FRUITS OIL**

INTERNATIONAL SHARIAH COMPLIANT IDEA, INVENTION, INNOVATION & DESIGN 2021

2021

ANTARABANGSA

SILVER

# AWARDS/RECOGNITION

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## 71. INSAN WATER BOAT COLECTOR REMOVAL OF MACRO AND MICRO WASTES

VIRTUAL INNOVATION COMPETITION 2021

2021 KEBANGSAAN SILVER

## 72. INSAN WATER BOAT COLLECTOR

SEMINAR KEBANGSAAN PENYELIDIK DAN INTERVENSI AMALAN BILIK DARJAH, SKINTERCLASS 2021

2021 KEBANGSAAN GOLD

## 73. INSAN WATER BOAT COLLECTOR

e-SEMINAR PENYELIDIKAN DAN INOVASI DALAM PENDIDIKAN 2021 (e-SPeDIP 2021)

2021 ANTARABANGSA BRONZE

## 74. SALT WATER HEATER

INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE (IJURECON2021)

2021 KEBANGSAAN

## 75. SALT WATER HEATER

INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE (IJURECON2021)

2021 KEBANGSAAN GOLD

## 76. BIODEGRADATION OF METHYLENE BLUES DYE BY GANODERMA LUCIDUM

INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE (IJURECON2021)

2021 KEBANGSAAN GOLD

## 77. BEST ILQA ABQARI VIDEO PRESENTATION

INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE (IJURECON2021)

2021 KEBANGSAAN GOLD

## 78. MYPLANET

SAMSUNG-SOLVE FOR TOMORROW COMPETITION

2021 KEBANGSAAN BRONZE

## 79. ANUGERAH STAF CONTOH (KATEGORI AKADEMIK)

2020 OTHERS

## 80. HYGIENIC TRAVEL SOAP FROM DABAI FRUITS OIL

CREATIONS DE UITM, MEGA INNOVATION CARNIVAL

2020 KEBANGSAAN GOLD

## 81. ANTIOXIDANT TRAVEL SOAP FROM DABAI FRUITS OIL

SEMINAR KEBANGSAAN MAJLIS DEKAN PENDIDIKAN UNIVERSITI AWAM MALAYSIA (MEDC 2020)

2020 KEBANGSAAN SILVER

## 82. HYGIENE TRAVEL SOAP FROM DABAI FRUITSB OIL

MELAKA INTERNATIONAL INTELLECTUAL EXPOSITION

2019 KEBANGSAAN GOLD