



DR. RAHAYU BINTI AHMAD

PENSYARAH UNIVERSITI DS13

CONTACT

Phone: 06798012

E-mail:

rahayu@usim.edu.my

Faculty: Kolej Permata Insan

SUPERVISION

PhD - Completed: 0, Ongoing: 0

Master - Completed: 1, Ongoing: 0

AREAS OF EXPERTISE

Fermentation Technology (including Submerged Fermentation)

Environmental Microbiology

Other Environmental Biotechnology N.e.c

ACADEMIC QUALIFICATION

PhD in Microbiologi (2017)

Master in Bioteknologi (2011)

Bachelor in Bioteknologi (2006)

RESEARCH

1. SYNTHESIS OF CU EMBEDDED MAGNETIC HYDROCHAR NANOCOMPOSITE DERIVED FROM COCONUT HUSK FOR CATALYTIC DEGRADATION OF ORGANIC POLLUTANT

2024 GERAN PENYELIDIKAN USIM ON GOING CO-RESEARCHER

2. MOLECULAR DESIGN AND EXTENSIVE STRUCTURE-ACTIVITY RELATIONSHIP (SAR) STUDIES OF β -CARBOLINE ANALOGUE AS ANTIMICROBIAL THERAPEUTIC AGENT

2022 GERAN SEPADAN AGENSI KERAJAAN ON GOING MAIN RESEARCHER

3. PEMBANGUNAN MODEL KURIKULUM PENDIDIKAN PINTAR BERBAKAT INTEGRASI ILMU NAQLI AQLI (IGED)

2021 GERAN PENYELIDIKAN KHAS ON GOING CO-RESEARCHER

4. PENEROKAAN POTENSI KOMPONEN FLORISTIK DAN FAUNASTIK DI KAMPUS USIM, NILAI: KE ARAH KAMPUS HIJAU YANG LESTARI

2020 GERAN PENYELIDIKAN USIM RACER COMPLETED CO-RESEARCHER

5. ANTIMICROBIAL, ANTIFUNGAL, ANTIOXIDANT AND ANTICANCER OF BETA-GLUCAN FROM ?CENDAWAN BUSUT? (TERMITOMYCES SP.) LOCALLY ISOLATED IN NEGERI SEMBILAN: A QUAD FUNCTIONAL NATURAL BIOACTIVE COMPOUND.

2019

GERAN PENYELIDIKAN USIM

ON GOING

MAIN RESEARCHER

RESEARCH

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

2019

GERAN PENYELIDIKAN USIM

COMPLETED

CO-RESEARCHER

PUBLICATION

1. EVALUATING BIOACTIVE POLYSACCHARIDES IN MARKETED MUSHROOMS: TOWARDS NATURAL ALTERNATIVES TO SYNTHETIC DRUG

INTERNATIONAL JOURNAL OF ADVANCED RESEARCH IN FOOD SCIENCE AND AGRICULTURAL TECHNOLOGY

2025 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

2. EVALUATION OF ANTIOXIDANT AND PHYTOCHEMICAL PROPERTIES OF PLEUROTUS SP. MUSHROOM MYCELIUM

INTERNATIONAL JOURNAL OF ADVANCED RESEARCH IN FOOD SCIENCE AND AGRICULTURAL TECHNOLOGY

2025 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

3. CORRECTION: SUPRAMANI ET AL. PERFORMANCE OF BIOMASS AND EXOPOLYSACCHARIDE PRODUCTION FROM THE MEDICINAL MUSHROOM GANODERMA LUCIDUM IN A NEW FABRICATED AIR-L-SHAPED BIOREACTOR (ALSB). PROCESSES 2023, 11, 670

PROCESSES

2025 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

4. AGRICULTURAL WASTE-DERIVED BIOPOLYMERS FOR SUSTAINABLE FOOD PACKAGING: CHALLENGES AND FUTURE PROSPECTS

POLYMERS

2025 JOURNAL INDEXED BY ERA CO-AUTHOR

5. SLEEP DURATION AND BMI: A STUDY AMONG FIRST-YEAR STUDENTS OF A MALAYSIAN MUSLIM GIFTED AND TALENTED INSTITUTION

MALAYSIAN JOURNAL OF SCIENCE, HEALTH & TECHNOLOGY

2025 JOURNAL SCOPUS CORRESPONDING AUTHOR

6. AN INTRODUCTION TO GIFTED EDUCATION

2025 BOOK

7. 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 CO-AUTHOR

8. MUSHROOM OILS: A REVIEW OF THEIR PRODUCTION, COMPOSITION, AND POTENTIAL APPLICATIONS

HELIYON

2024 JOURNAL WOS CO-AUTHOR

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

ASIAN JOURNAL OF FUNDAMENTAL AND APPLIED SCIENCES

2024 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

10. ASSESSING γ -CARBOLINE ANALOGUES AS ANTIBIOTIC AGENT USING IN VITRO STUDIES

ASIAN JOURNAL OF FUNDAMENTAL AND APPLIED SCIENCES

2024 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

11. OPTIMIZATION OF EXTRACTION TEMPERATURE AND TIME FOR ANTIOXIDANT LENTINUS EDODES USING RESPONSE SURFACE METHODOLOGY

SEMARAK INTERNATIONAL JOURNAL OF PETROLEUM AND CHEMICAL

2024 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

12. STUDY ON PHYTOCHEMICALS AND ANTIOXIDANTS OF PLEUROTUS SP. CULTIVATED THROUGH SUBMERGED FERMENTATION

SEMARAK INTERNATIONAL JOURNAL OF PETROLEUM AND CHEMICAL

2024 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

13. OPTIMIZATION OF EXTRACTION TEMPERATURE AND TIME FOR CARBOHYDRATE CONTENT, DPPH SCAVENGING ACTIVITY AND FLAVONOID CONTENT OF SHITAKE MUSHROOM (LENTINUS EDODES) USING RESPONSE SURFACE METHODOLOGY (RSM)

SCIENCE AND TECHNOLOGY GRADUATES COLLOQUIUM (KOSIST)

2024 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

PUBLICATION

14. OPTIMIZATION OF EXTRACTION TEMPERATURE AND TIME FOR ANTIOXIDANT LENTINUS EDODES USING RESPONSE SURFACE METHODOLOGY (RSM)

SCIENCE AND TECHNOLOGY GRADUATES COLLOQUIUM

2024 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

15. EVALUATING BIOACTIVE POLYSACCHARIDES IN MARKETED MUSHROOMS: TOWARDS NATURAL ALTERNATIVES TO SYNTHETIC DRUG

SCIENCE AND TECHNOLOGY GRADUATES COLLOQUIUM (KOSIST)

2024 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

16. STUDY ON PHYTOCHEMICALS AND ANTIOXIDANTS OF PLEUROTUS SP. CULTIVATED THROUGH SUBMERGED FERMENTATION

SCIENCE AND TECHNOLOGY GRADUATE COLLOQUIUM (KOSIST)

2024 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

17. EVALUATION OF ANTIOXIDANT AND PHYTOCHEMICAL PROPERTIES OF PLEUROTUS SP. MUSHROOM MYCELIUM

SCIENCE AND TECHNOLOGY GRADUATES COLLOQUIUM (KOSIST)

2024 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

18. ENHANCING BIOMASS-EXOPOLYSACCHARIDES PRODUCTION OF LIGNOSUS RHINOCERUS IN A HIGH-SCALE STIRRED-TANK BIOREACTOR AND ITS POTENTIAL LIPID AS BIOENERGY

ENERGIES

2023 JOURNAL ERA MAIN AUTHOR

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

ASIAN JOURNAL OF FUNDAMENTAL AND APPLIED SCIENCES

2023 JOURNAL MYCITE CORRESPONDING AUTHOR

20. PERFORMANCE OF BIOMASS AND EXOPOLYSACCHARIDE PRODUCTION FROM THE MEDICINAL MUSHROOM GANODERMA LUCIDUM IN A NEW FABRICATED AIR-L-SHAPED BIOREACTOR (ALSB)

PROCESSES

2023 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

21. 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

22. 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

23. ASSESSING γ -CARBOLINE ANALOGUES AS ANTIBIOTIC AGENT USING IN VITRO STUDIES

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

2023 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

24. 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

25. DETERMINATION OF ANTIOXIDANTS COMPOUNDS FROM PANGIUM EDULE

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

2023 PROCEEDING NON-INDEX CO-AUTHOR

26. 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

PUBLICATION

27. 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

28. 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

29. DETERMINATION OF ANTIOXIDANTS COMPOUNDS FROM PANGIUM EDULE

INSAN INTERNATIONAL JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE (IJURECON 2023)

2023 PROCEEDING NON-INDEX CO-AUTHOR

30. MUSLIM GIFTED AND TALENTED CURRICULUM: A DESIGN OF FRAMEWORK

INTERNATIONAL JOURNAL OF ACADEMIC RESEARCH IN PROGRESSIVE EDUCATION AND DEVELOPMENT

2022 JOURNAL ERA CO-AUTHOR

31. 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

32. 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

33. PHYTOCHEMICAL SCREENING AND FTIR SPECTROSCOPY ON CRUDE EXTRACT OF PEPEROMIA PELLUCIDA LEAVES

5TH INTERNATIONAL CONFERENCE ON MOLECULAR BIOLOGY AND BIOTECHNOLOGY 2022 (ICMBB 2022)

2022 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

34. E-PROCEEDINGS, 3RD INSAN JUNIOR RESEARCHER INTERNATIONAL CONFERENCE 2022

2022 BOOK CHIEF EDITOR

35. MODUL PENGAJARAN DAN PEMBELAJARAN SERTA PENTAKSIRAN BERSEPADU KURIKULUM PENDIDIKAN PINTAR BERBAKAT, INTEGRASI NAQLI DAN AQLI (IGED), TAHAP 2 HAMZAH

2022 BOOK EDITOR

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

2022 BOOK EDITOR

37. MODUL PENGAJARAN DAN PEMBELAJARAN SERTA PENTAKSIRAN BERSEPADU KURIKULUM PENDIDIKAN PINTAR BERBAKAT, INTEGRASI NAQLI DAN AQLI (IGED), TAHAP 1 ALI

2022 BOOK EDITOR

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

2022 BOOK EDITOR

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

2022 BOOK EDITOR

PUBLICATION

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

2022 BOOK EDITOR

41. KIMIA

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

2022 CHAPTER IN BOOK MAIN AUTHOR

42. KIMIA-DR RAHAYU AHMAD

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

2022 CHAPTER IN BOOK MAIN AUTHOR

43. KIMIA-DR RAHAYU AHMAD

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

2022 CHAPTER IN BOOK MAIN AUTHOR

44. POLISI HAL EHWAL AKADEMIK, KOLEJ GENIUS INSAN

2022 POLICY

45. EFFICIENT BIOMASS-ENDOPOLYSACCHARIDE PRODUCTION FROM AN IDENTIFIED WILD-SERBIAN GANODERMA APPLANATUM STRAIN BGS6AP MYCELIUM IN A CONTROLLED SUBMERGED FERMENTATION

BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY

2021 JOURNAL SCOPUS MAIN AUTHOR / CONTACT PERSON IN USIM

46. ISOLATION, IDENTIFICATION, CULTIVATION AND DETERMINATION OF ANTIMICROBIAL β -GLUCAN FROM A WILD-TERMITE MUSHROOM TERMITOMYCES HEIMII RFES 230662

BIOCATALYSIS AND AGRICULTURE BIOTECHNOLOGY

2021 JOURNAL WOS CORRESPONDING AUTHOR

47. ANALYSIS OF ANTIOXIDANT COMPOUNDS AND ANTIMICROBIAL ACTIVITIES OF HYGIENIC TRAVEL SOAP FROM DABAI FRUITS OIL

INTERNATIONAL CONFERENCE ON RESEARCH AND PRACTICES IN SCIENCE, TECHNOLOGY AND SOCIAL SCIENCES 2021

2021 PROCEEDING NON-INDEX CO-AUTHOR

48. FACILE SYNTHESIS AND CHARACTERIZATION OF THIN MESOPOROUS SILICA/GOLD FILM NANOCOMPOSITES ON ANODIZED ALUMINIUM OXIDE/GLASS SUBSTRATE

INTERNATIONAL CONFERENCE ON RESEARCH AND PRACTICES IN SCIENCE, TECHNOLOGY AND SOCIAL SCIENCES 2021

2021 PROCEEDING NON-INDEX CO-AUTHOR

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

INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE 2021 (IJURECON 2021)

2021 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

50. OPTIMIZATION OF EXTRACTION TEMPERATURE AND TIME FOR ANTIOXIDANT OF LENTINUS EDODES MUSHROOM USING RESPONSE SURFACE METHODOLOGY (RSM)

INTERNATIONAL CONFERENCE ON RESEARCH AND PRACTICES IN SCIENCE, TECHNOLOGY AND SOCIAL SCIENCES 2021

2021 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

51. IN-DEPTH SPECTRAL CHARACTERIZATION OF ANTIOXIDATIVE (1,3)-BETA-GLUCAN FROM THE MYCELIUM OF AN IDENTIFIED TIGER MILK MUSHROOM LIGNOSUS RHINOCERUS STRAIN ABI IN A STIRRED-TANK BIOREACTOR

BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY

2020 JOURNAL SCOPUS CO-AUTHOR

52. PELLET DIAMETER OF GANODERMA LUCIDUM IN A REPEATED-BATCH FERMENTATION FOR THE TRIO TOTAL PRODUCTION OF BIOMASSEXPOLYSACCHARIDE-ENDOPOLYSACCHARIDE AND ITS ANTI-ORAL CANCER BETA-GLUCAN RESPONSE.

AIMS MICROBIOLOGY

2020

JOURNAL

WOS

MAIN AUTHOR

PUBLICATION

53. HYGIENIC TRAVEL SOAP FROM DABAI FRUITS OIL

CREATIONS DE UITM 2020

2020 PROCEEDING NON-INDEX MAIN AUTHOR

54. ISTIHALAH: WHITE WINE CATALYST

CREATIONS DE UITM 2020

2020 PROCEEDING NON-INDEX CO-AUTHOR

55. INVESTIGATION ON POTENTIAL OF GREEN AREA FOR ESTABLISHMENT OF FOREST IN UNIVERSITY CAMPUS

INTERNATIONAL FOREST JUNIOR COMPETITION 202

2020 PROCEEDING NON-INDEX CO-AUTHOR

56. EXTRACTION AND DETERMINATION OF BIOACTIVE COMPOUNDS FROM PREMNA FOETIDA LEAVES

INSAN INTERNATIONAL JUNIOR RESEARCHER (IJURECON 2020)

2020 PROCEEDING NON-INDEX CO-AUTHOR

57. DIVERSITY OF SEA SHORE INVERTEBRATES AT WEST COAST PENINSULAR MALAYSIA

INSAN INTERNATIONAL JUNIOR RESEARCHER CONFERENCE (IJURECON2020)

2020 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

58. EXTRACTION AND ANTIMICROBIAL PROPERTIES OF POLYSACCHARIDE FROM PLEUROTUS ERYNGII

INSAN INTERNATIONAL JUNIOR RESEARCHER CONFERENCE (IJURECON2020)

2020 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

59. DETERMINATION OF POLYSACCHARIDE FROM ?CENDAWAN BUSUT? CRUDE WATER EXTRACT

INSAN INTERNATIONAL JUNIOR RESEARCHER CONFERENCE (IJURECON2020)

2020 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

60. ISOLATION AND PRODUCTION OF POLYSACCHARIDE FROM LOCALLY ISOLATED TERMITOMYCES SP. MUSHROOM

KOSIST 2020 POSTGRADUATE SEMINAR FACULTY OF SCIENCE AND TECHNOLOGY

2020 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

61. SCHOOL-SCALE MICROBE BIOREACTOR KIT: INTRODUCING FERMENTATION TECHNOLOGY TO THE SECONDARY SCHOOLS

INSAN INTERNATIONAL JUNIOR RESEARCHER CONFERENCE (IJURECON2020)

2020 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

62. SCHOOL-SCALE MICROBE BIOREACTOR KIT: INTRODUCING FERMENTATION TECHNOLOGY TO THE SECONDARY SCHOOLS

SEMINAR KEBANGSAAN MAJLIS DEKAN PENDIDIKAN UNIVERSITI AWAM MALAYSIA, MEDC 2020

2020 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

63. PELLET DIAMETER AND MORPHOLOGY OF EUROPEAN GANODERMA PFEIFFERI IN A REPEATED-BATCH FERMENTATION FOR EXOPOLYSACCHARIDE PRODUCTION

BIOCATALYSIS AND AGRICULTURAL BIOTECHNOLOGY

2019 JOURNAL SCOPUS CO-AUTHOR

64. OPTIMISATION OF BIOMASS, EXOPOLYSACCHARIDE AND INTRACELLULAR POLYSACCHARIDE PRODUCTION FROM THE MYCELIUM OF AN IDENTIFIED GANODERMA LUCIDUM STRAIN QRS 5120 USING RESPONSE SURFACE METHODOLOGY (RSM)

AIMS MICROBIOLOGY

2019 JOURNAL WOS CO-AUTHOR

65. HYGIENIC TRAVEL SOAP FROM DABAI FRUITS OIL

MELAKA INTERNATIONAL INTELLECTUAL EXPOSITION. WORLD CONFERENCE AND EXHIBITION ON SOCIAL SCIENCES, SCIENCE & TECHNOLOGY

2019 PROCEEDING NON-INDEX MAIN AUTHOR

PUBLICATION

66. BETA GLUCAN FROM THE MYCELIUM OF MALAYSIAN MEDICINAL MUSHROOM GANODERMA LUCIDUM AND THEIR ANTIMICROBIAL ACTIVITIES: A POTENTIAL FUNCTIONAL FOOD MATERIAL

2ND INTERNATIONAL FOOD RESEARCH CONFERENCE 2019

2019 PROCEEDING NON-INDEX CO-AUTHOR

67. POLISI PECUTAN SIJIL PELAJARAN MALAYSIA

2019 POLICY

68. POLISI INSAN JUNIOR SCHOOL CERTIFICATE (IJSC)

2019 POLICY

69. FRUITING-BODY-BASE FLOUR FROM AN OYSTER MUSHROOM?A WASTE SOURCE OF ANTIOXIDATIVE FLOUR FOR DEVELOPING POTENTIAL FUNCTIONAL COOKIES AND STEAMED-BUN

AIMS AGRICULTURE AND FOOD

2018 JOURNAL WOS CO-AUTHOR

70. INCORPORATION OF PALM OIL FOR THE ENHANCEMENT OF BIOMASS AND POLYSACCHARIDE PRODUCTION THROUGH SUBMERGED FERMENTATION FROM LOCALLY ISOLATED PLEUROTUS SP. MYCELIUM

INTERNATIONAL JOURNAL OF ADVANCED RESEARCH (IJAR)

2018 JOURNAL SSCI MAIN AUTHOR

71. PRODUCTION AND ANTIPROLIFERATIVE ACTIVITY OF VARIOUS CRUDE EXTRACT FROM LENTINUS SQUARROSULUS MYCELIUM

SCHOLAR ACADEMIC JOURNAL OF BIOSCIENCES (SAJB)

2015 JOURNAL OTHER DATABASE MAIN AUTHOR

72. ANTIOXIDANT PROPERTIES AND GLUCAN COMPOSITIONOF VARIOUS CRUDE EXTRACT FROM LENTINUS SQUARROSULUS MYCELIAL CULTURE

ADVANCES IN BIOSCIENCE AND BIOTECHNOLOGY

2014 JOURNAL OTHER DATABASE MAIN AUTHOR

73. MICROBIAL SYNTHESIS OF POLY(3-HYDROXYBUTYRATE-CO-4-HYDROXYBUTYRATE) COPOLYMER BY CUPRIAVIDUS SP. USMAA2-4 THROUGH A TWO STEP CULTIVATION PROCESS

AFRICAN JOURNAL OF BIOTECHNOLOGY

2009 JOURNAL OTHER DATABASE CO-AUTHOR

74. PRODUCTION OF COPOLYMER POLY(3-HYDROXYBUTYRATE-CO-4-HYDROXYBUTYRATE) THROUGH A ONE-STEP CULTIVATION PROCESS

WORLD JOURNAL OF MICROBIOLOGY AND BIOTECHNOLOGY

2008 JOURNAL WOS MAIN AUTHOR

CONSULTATION

1. KAJIAN POPULASI SPESIES ULAR SAWA DAN BIAWAK AIR DI NEGERI PERAK

MINISTRY OF ENERGY AND NATURAL RESOURCES (KETSAR)

2022

NATIONAL

2. AN IN-VITRO EVALUATION OF LAURIC ACID ISOLATED FROM COCONUT CRUDE OIL ON INHIBITING THE GROWTH OF SELECTED MICROORGANISM IN HUMAN SALIVA

MANIPAL INTERNATIONAL UNIVERSITY

2020

NATIONAL

3. KOLABORASI PENYELIDIKAN ANTARA MRSM KUALA KLANG DAN KOLEJ GENIUS INSAN

KEMENTERIAN PENDIDIKAN MALAYSIA

2019

NATIONAL

4. PRODUCTION OF BIOACTIVE ENDO AND EXOPOLYSACCHARIDE FROM MALAYSIAN TIGER MILK MUSHROOMS

UNIVERSITY MALAYA, AGROBIOTECHNOLOGY INSTITUTE MALAYSIA (ABI), NATIONAL INSTITUTE OF BIOTECHNOLOGY MALAYSIA (NIBM), AGENSI NUKLEAR MALAYSIA, KOLEJ GENIUS INSAN, USIM.

2018

NATIONAL

5. PRODUCTION OF BIOACTIVE ENDO AND EXOPOLYSACCHARIDE FROM MALAYSIAN TIGER MILK MUSHROOM

KEMENTERIAN PENDIDIKAN MALAYSIA

2018

NATIONAL

AWARDS/RECOGNITION

1. EDITOR'S CHOICE ARTICLE

2025 INTERNATIONAL

2. WRITER'S OF THE MONTH (JULY 2025)

2025 OTHERS

3. WRITER'S OF THE MONTH (MAY 2025)

2025 OTHERS

4. WRITER'S OF THE MONTH (APRIL 2025)

2025 OTHERS

5. WRITER'S OF THE MONTH (FEBRUARY 2025)

2025 OTHERS

6. WRITER'S OF THE MONTH (JULY 2025, CO-AUTHOR_1)

2025 OTHERS

7. STAFF CONTOH BULANAN (KATEGORI AKADEMIK)

2025 UNIVERSITY

8. DUO&KEY: MOLECULAR MATCH-UP CARD GAME TO ENHANCE KNOWLEDGE AND APPLICATION OF CHEMICAL BONDING

VIRTUAL INNOVATION COMPETITION 2025

2025 ANTARABANGSA GOLD

9. GREENSTEM LAB: SHAPING THE NEXT GENERATION OF SUSTAINABILITY INNOVATORS

International Invention, Innovation & Entrepreneurship Idea Competition 2025

2025 ANTARABANGSA SILVER

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

INSAN Junior Researchers International Conference (ijJURECON 2025)

2025 ANTARABANGSA BRONZE

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

INSAN Junior Researchers International Conference (ijJURECON 2025)

2025 ANTARABANGSA GOLD

12. NUTRACEUTICALS FROM BUSHLAND: DETERMINATION OF MEDICINAL VALUE OF MALAYSIAN WILD HERBS FOR HYGIENIC TRAVEL SOAP

INTERNATIONAL VIRTUAL COMPETITION OF CREATIVE & INNOVATIVE IDEA (IVCCII)

2025 ANTARABANGSA GOLD

13. SUSTAINABLE DEVELOPMENT GOALS (SDG) INNOVATION CHALLENGE

TUNKU KURSHIAH INTERNATIONAL YOUTH CLIMATE ACTION CONVENTION 2025

2025 ANTARABANGSA GOLD

14. 3D PRINTING SCHOOL-SCALE MICROBE BIOREACTOR KIT

INSAN Junior Researchers International Conference (ijJURECON 2025)

2025 ANTARABANGSA SILVER

AWARDS/RECOGNITION

15. HANIE PAPER KERTAX

INSAN Junior Researchers International Conference (ijJURECON 2025)

2025 ANTARABANGSA GOLD

16. DEVELOPMENT OF HERBAL LOZENGES FROM PUCUK MATA ITIK (ARDISIA ELLIPTICA) EXTRACT AS A NATURAL RMEDY FOR COUGH RELIEF

INSAN Junior Researchers International Conference (ijJURECON 2025)

2025 ANTARABANGSA GOLD

17. ECOSPARK: MINI BIOGAS DIGESTER FOR COOKING GAS AND FERTILIZER FOR RURAL AND FARMING COMMUNITIES

INSAN Junior Researchers International Conference (ijJURECON 2025)

2025 ANTARABANGSA GOLD

18. GREENSTEM LAB: SHAPING THE NEXT GENERATION OF SUSTAINABILITY INNOVATORS

INSAN Junior Researchers International Conference (ijJURECON 2025)

2025 ANTARABANGSA BRONZE

19. ANUGERAH INOVASI TERBAIK OKTOBER 2024

2024 UNIVERSITY

20. ANUGERAH INOVASI TERBAIK SEPTEMBER 2024

2024 UNIVERSITY

21. ANUGERAH PENULIS JURNAL CEMERLANG MEI 2024

2024 UNIVERSITY

22. ANUGERAH PENULIS JURNAL CEMERLANG JUN 2024

2024 UNIVERSITY

23. ANUGERAH PENULIS JURNAL CEMERLANG OKTOBER 2024

2024 UNIVERSITY

24. TEMPAT KETIGA PERTANDINGAN ANYAMAN KETUPAT

2024 UNIVERSITY

25. EDITOR'S CHOICE ARTICLE

2024 INTERNATIONAL

26. ANUGERAH PENILAI JURNAL/GERAN/BUKU/PROSIDING BERKUALITI

2024 UNIVERSITY

27. ANUGERAH INOVASI TERBAIK OGOS 2024

2024 UNIVERSITY

28. ANUGERAH INOVASI TERBAIK OKTOBER 2024

2024 UNIVERSITY

AWARDS/RECOGNITION

29. NUTRACEUTICALS FROM BUSHLAND: DETERMINATION OF MEDICINAL VALUE OF MALAYSIAN WILD HERBS FOR HYGENIC TRAVEL SOAP

Semarak International Research Article Competition 2024 (SIRAC 2024)

2024 ANTARABANGSA SILVER

30. NUTRACEUTICALS FROM BUSHLAND: DETERMINATION OF MEDICINAL VALUE OF MALAYSIAN WILD HERBS

SMART INNOVATION COMPETITION 2024 INTERNATIONAL LEVEL

2024 ANTARABANGSA SILVER

31. NUTRACEUTICALS FROM BUSHLAND: DETERMINATION OF MEDICINAL VALUE OF MALAYSIAN WILD HERBS

EAST COAST SCHOOLS EDUCATION RESEARCH SYMPOSIUM (ECSERS) 2024

2024 KEBANGSAAN

32. NUTRACEUTICALS FROM BUSHLAND: DETERMINATION OF MEDICINAL VALUE OF MALAYSIAN WILD HERBS

EAST COAST SCHOOLS EDUCATION RESEARCH SYMPOSIUM (ECSERS) 2024

2024 KEBANGSAAN PLATINUM

33. NUTRACEUTICALS FROM BUSHLAND: DETERMINATION OF MEDICINAL VALUE OF MALAYSIAN WILD HERBS (YOUNG SCIENTIST)

VIRTUAL INNOVATION COMPETITION 2024

2024 ANTARABANGSA GOLD

34. DEVELOPMENT OF EDUCATIONAL CHEMISTRY CARD GAMES FOR HIGH-SCHOOL STUDENTS: ENHANCING LEARNING THROUGH PLAY

4TH INNOVATION BANK CHALLENGE 2024 (IBC 2024)

2024 UNIVERSITI GOLD

35. STUDY ON PHYTOCHEMICALS AND ANTIOXIDANTS OF PLEUROTUS SP. CULTIVATED THROUGH SUBMERGED FERMENTATION

Semarak International Research Article Competition 2024 (SIRAC 2024)

2024 ANTARABANGSA SILVER

36. EVALUATION OF ANTIOXIDANT AND PHYTOCHEMICAL PROPERTIES OF PLEUROTUS SP. MUSHROOM MYCELIUM

Semarak International Research Article Competition 2024 (SIRAC 2024)

2024 ANTARABANGSA SILVER

37. EVALUATING BIOACTIVE POLYSACCHARIDES IN MARKETED MUSHROOMS: TOWARDS NATURAL ALTERNATIVES TO SYNTHETIC DRUG

Semarak International Research Article Competition 2024 (SIRAC 2024)

2024 ANTARABANGSA SILVER

38. OPTIMIZATION OF EXTRACTION TEMPERATURE AND TIME FOR ANTIOXIDANT LENTINUS EDODES USING RESPONSE SURFACE METHODOLOGY (RSM)

Semarak International Research Article Competition 2024 (SIRAC 2024)

2024 ANTARABANGSA BRONZE

39. BODY MASS INDEX AND SLEEP DURATION IN BOARDING SCHOOL STUDENTS: A CROSS-SECTIONAL STUDY AT KOLEJ PERMATA INSAN

Insan Junior Researchers International Conference (IJURECON 2023)

2023 ANTARABANGSA SILVER

40. STAF CONTOH (KATEGORI AKADEMIK) - MAC 2022

2022 OTHERS

41. ANUGERAH TOKOH AKADEMIK CEMERLANG

2022 UNIVERSITY

42. 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



AWARDS/RECOGNITION

43. ANUGERAH KHAS HARI GURU

2021 OTHERS

44. ANUGERAH PERKHIDMATAN CEMERLANG 2021

2021 UNIVERSITY

45. BIODEGRADATION OF METHYLENE BLUES DYE BY GANODERMA LUCIDUM

INSAN JUNIOR RESEARCHERS INTERNATIONAL CONFERENCE (IJURECON2021)

2021 KEBANGSAAN GOLD

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

INTERNATIONAL SHARIAH COMPLIANT IDEA, INVENTION, INNOVATION & DESIGN 2021

2021 ANTARABANGSA SILVER

47. HYGIENE TRAVEL SOAP FROM DABAI FRUITS OIL

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

2021 ANTARABANGSA GOLD

48. BIODEGRADATION OF METHYLENE BLUE DYE BY TRICHODERMA REESERSP.

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

2021 ANTARABANGSA BRONZE

49. SCHOOL SCALE MICROBE BIOREACTOR KIT: INTRODUCING FERMENTATION TECHNOLOGY TO THE SECONDARY SCHOOLS

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

2021 ANTARABANGSA SILVER

50. ANUGERAH GURU PEMBIMBING CEMERLANG

2020 NATIONAL

51. HYGIENIC TRAVEL SOAP FROM DABAI FRUITS OIL

CREATIONS DE UITM, MEGA INNOVATION CARNIVAL

2020 KEBANGSAAN GOLD

52. SCHOOL-SCALE MICROBE BIOREACTOR KIT (SCMBK): INTRODUCING FERMENTATION TECHNOLOGY TO THE SECONDARY SCHOOLS

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

2020 KEBANGSAAN SILVER

53. ANTIOXIDANT TRAVEL SOAP FROM DABAI FRUITS OIL

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

2020 KEBANGSAAN SILVER

54. ISTIHALAH: WHITE WINE VINEGAR

CREATIONS DE UITM, MEGA INNOVATION CARNIVAL

2020 KEBANGSAAN BRONZE

55. STAF CONTOH: KATEGORI AKADEMIK

2019 OTHERS

56. HYGIENE TRAVEL SOAP FROM DABAI FRUITSB OIL

MELAKA INTERNATIONAL INTELLECTUAL EXPOSITION

2019 KEBANGSAAN GOLD