

Profile Image

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**Faculty:** Fakulti Sains  
Dan Teknologi

**SUPERVISION**

PhD - Completed: 0, Ongoing: 1

Master - Completed: 11,  
Ongoing: 0

**AREAS OF EXPERTISE**

Bioorganic Chemistry

**ACADEMIC QUALIFICATION**

PhD in Kimia Sintesis (2006)

Bachelor in Kimia Industri (2001)

**RESEARCH**

**1. EVALUATION OF CHITOSAN HYDROGEL DERIVED FROM SEAFOOD WASTE IN ENCAPSULATING AND DELIVERING MICROBIAL BIOCONTROL AGENTS FOR COMMUNITY-BASED VEGETABLE FARMING**

2024

GERAN PENYELIDIKAN PENTADBIR

ON GOING

CO-RESEARCHER

**2. EVALUATION OF THE PHYSICOCHEMICAL CHARACTERISTICS OF SULFATE-BASED IONIC LIQUIDS FOR THE PRETREATMENT OF LIGNOCELLULOSIC BIOMASS FROM OIL PALM EMPTY FRUIT BUNCH**

2024

GERAN KPT

ON GOING

CO-RESEARCHER

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

2023

GERAN KPT

ON GOING

CO-RESEARCHER

**4. ELUCIDATION OF THE PHYSICOCHEMICAL PROPERTIES OF FUNCTIONALIZED IONIC LIQUID CATIONS AND ANIONS TOWARD THE DECOMPOSITION OF LIGNOCELLULOSIC MATERIALS.**

2023

GERAN PENYELIDIKAN USIM

ON GOING

CO-RESEARCHER

**5. ZRO<sub>2</sub>-FE<sub>3</sub>O<sub>4</sub> AS A NANO-MAGNETIC BIFUNCTIONAL CATALYST FOR BIODIESEL PRODUCTION FROM WASTE COOKING OIL**

2022

GERAN PENYELIDIKAN USIM

ON GOING

CO-RESEARCHER

# RESEARCH

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## 6. MODIFICATION OF VEGETABLE OILS USING HYDROPHILIC AND LIPOPHILIC MOIETIES TO PRODUCE WAX ESTERS FOR COSMETIC FORMULATIONS

2022 GERAN PENYELIDIKAN USIM ON GOING MAIN RESEARCHER

## 7. PHYSICOCHEMICAL PROPERTIES OF MODIFIED PHOSPHOMOLYBDIC ACID/HYDROTALCITE CATALYZED HYDROLYTIC OXIDATION OF CELLULOSE TO FORMIC ACID

2019 GERAN KPT COMPLETED CO-RESEARCHER

## 8. MONTMORILLONITE CLAY MODIFIED WITH METAL CATIONS AS ACID CATALYSTS FOR BIODIESEL PRODUCTION FROM WASTE COOKING OIL.

2017 GERAN KPT COMPLETED CO-RESEARCHER

## 9. METAL CATION -EXCHANGED MONTMORILLONITE K10 AS A GREEN CATALYST FOR PRODUCTION OF OLEIC ACID ALKYL ESTERS

2016 GERAN PENYELIDIKAN TRANSLASIONAL COMPLETED CO-RESEARCHER

## 10. ELECTRICAL STUDIES OF RENEWABLE BIONANOCOMPOSITE BIOPOLYMER ELECTROLYTE FOR DYE SENSITIZED SOLAR CELL (DSSC) APPLICATION

2016 GERAN KPT COMPLETED CO-RESEARCHER

## 11. EVALUATION OF TYROSINASE AND FREE RADICAL SCAVENGING ACTIVITIES OF KOJIC ACID (KA) KOJIC ACID MONOOLEATE(KAMO)

2016 GERAN PENYELIDIKAN TRANSLASIONAL COMPLETED MAIN RESEARCHER

## 12. EFFECT OF ENVIRONMENTAL STRESS FACTORS AND GROWTH CONDITIONS ON BACILLUS SP. IN PRODUCING BIOACTIVE PROTEINS

2015 GERAN KPT COMPLETED CO-RESEARCHER

## 13. IDENTIFICATION AND CHARACTERISATION OF MICROORGANISMS ASSOCIATED WITH SEA CUCUMBERS FROM MALAYSIA WATERS

2015 GERAN KPT COMPLETED CO-RESEARCHER

## 14. ISOLATION AND MOLECULAR IDENTIFICATION OF RIBOFLAVIN-PRODUCING YEAST STRAINS FROM SELECTED LOCAL FRUITS IN MALAYSIA

2014 GERAN PENYELIDIKAN JANGKA PENDEK COMPLETED CO-RESEARCHER

## 15. CHARACTERIZATION OF DEEP EUTETIC SOLVENT (DES) - DOPED CHITOSAN BASED POLYMER ELECTROLYTE FOR SOLAR CELL APPLICATION

2013 GERAN PENYELIDIKAN USIM COMPLETED CO-RESEARCHER

## 16. ENZYMATIC SYNTHESIS OF FERULATE ESTERS, A BIO-BASED UV ABSORBER USING A NEW DUAL BIOCATALYST SYSTEM

2012 GERAN KPT COMPLETED CO-RESEARCHER

## 17. OPTIMIZATION AND CHARACTERIZATION OF BIOACTIVE PROTEIN PRODUCED BY BACILLUS SP. IN THE PRESENCE OF CYMBOPOGON SP. ESSENTIAL OILS

2012 GERAN KPT COMPLETED CO-RESEARCHER

## 18. ELECTRICAL STUDIES OF LAUROYL-CHITOSAN BLEND POLYMER ELECTROLYTES FOR APPLICATION IN LITHIUM BATTERY

2012 GERAN KPT COMPLETED CO-RESEARCHER

## 19. BIOCOMPATIBLE CALCINED LAYERED DOUBLE HYDROXIDES AS SUPPORT FOR EFFICIENT IMMOBILIZATION OF BIOCATALYSTS

2012 GERAN KPT COMPLETED CO-RESEARCHER

## 20. SCREENING ON BIOLOGICAL PROPERTIES OF EUPHORBIA HIRTA (L.)

2012 GERAN PENYELIDIKAN PENTADBIR COMPLETED CO-RESEARCHER

## 21. ANTIMICROBIAL EFFECTS ON BIOACTIVE PROTEINS OR PEPTIDES PRODUCTION BY LACTOBACILLUS SP.

2012 GERAN PENYELIDIKAN USIM COMPLETED CO-RESEARCHER

# RESEARCH

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## 22. NEW ACTIVATED BIOCATALYST IN THIN FILM OF CELLULOSE DERIVATIVE

2012 GERAN PENYELIDIKAN USIM COMPLETED CO-RESEARCHER

## 23. A NEW DUAL BIOCATALYSTS SYSTEM IN IMPROVING THE REACTION SYNTHESIS OF KOJIC ESTER , A HALAL BIO BASED WHITENING AGENT

2012 GERAN KPT COMPLETED MAIN RESEARCHER

## 24. ANTIMICROBIAL EFFECTS ON BIOACTIVE PROTEINS OR PEPTIDES PRODUCTION BY BACILLUS SP.

2012 GERAN KPT COMPLETED CO-RESEARCHER

## 25. USE OF RESPONSE SURFACE METHODOLOGY FOR ENHANCEMENT OF ITURIN A PRODUCTION AND INVESTIGATION OF ITS ANTIFUNGAL ACTIVITY FOR BIOLOGICAL CONTROL OF CERTAIN PHYTOPATHOGENS

2012 GERAN KPT COMPLETED CO-RESEARCHER

## 26. KINETIC MODELING AND OPTIMIZATION VIA RESPONSE SURFACE METHODOLOGY (RSM) FOR EFFICIENT PRODUCTION OF FERULATE ESTERS

2012 GERAN PENYELIDIKAN USIM COMPLETED MAIN RESEARCHER

## 27. INTERACTION OF TWO LIPASES IN THE PRODUCTION OF RESTRUCTURED LIPIDS

2011 GERAN PENYELIDIKAN FUNDAMENTAL COMPLETED CO-RESEARCHER

## 28. PHYSICO-CHEMICAL STABILITY OF BANANA AND CASSAVA CHIPS DURING STORAGE UNDER DIFFERENT PACKAGING CON

2011 GERAN PENYELIDIKAN FUNDAMENTAL COMPLETED CO-RESEARCHER

## 29. OPTIMIZATION VIA RESPONSE SURFACE METHODOLOGY (RSM) FOR EFFICIENT PRODUCTION OF FERULATE ESTER

2011 GERAN PENYELIDIKAN FUNDAMENTAL COMPLETED MAIN RESEARCHER

## 30. THE STUDY OF CELLULOSE-BASED HYBRID SOLID POLYMER ELECTROLYTES

2010 GERAN KPT COMPLETED CO-RESEARCHER

## 31. EFFECTS OF ANTIMICROBIAL - INDUCED STRESS ON BIOACTIVE PROTEINS OR PEPTIDES PRODUCTION BY BACILLUS SP. AND LACTOBACCILLUS SP.

2010 GERAN PENYELIDIKAN INDUSTRI COMPLETED CO-RESEARCHER

## 32. STUDY ON BIOLOGICAL OF ESSENTIAL OIL FROM CYMBOPOGON SP.

2009 GERAN PENYELIDIKAN FUNDAMENTAL COMPLETED CO-RESEARCHER

## 33. STUDY ON ANTIMICROBIAL EFFECT OF SOLANUM MACROCARPON

2009 GERAN KPT COMPLETED CO-RESEARCHER

## 34. SYNTHESIS OF BIS-THIOUREA COMPAUNDS AS IONOPHORE FOR MERCURY (II) ION-SELECTIVE ELECTRODE (ISE)

2009 GERAN KPT COMPLETED CO-RESEARCHER

## 35. GREEN SYNTHESIS OF FLAVOUR ESTER VIA LIPASE-CATALYZED REACTION

2008 GERAN KPT COMPLETED MAIN RESEARCHER

## 36. NEW FELDSPAR-IMMOBILIZED BIOCATALYSTS FOR ORGANIC SYNTHESIS

2008 GERAN KPT COMPLETED CO-RESEARCHER

## 37. ENZYMATIC SYNTHESIS OF PALM-BASED SPECIALTY ESTER AS RAW MATERIAL FOR COSMETIC

2007 GERAN PENYELIDIKAN FUNDAMENTAL COMPLETED MAIN RESEARCHER

# PUBLICATION

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## 1. BIOLOGICAL AND PHYSICOCHEMICAL STUDIES OF OLEYL OLEATE AS AN ACTIVE AGENT TO BE APPLIED IN COSMETIC FORMULATION.

2ND INTERNATIONAL BIOMECS SYMPOSIUM (IBS 2024)

2024 PROCEEDING MYCITE CORRESPONDING AUTHOR

## 2. BIOLOGICAL AND PHYSICOCHEMICAL STUDIES OF OLEYL PALMITATE TO BE APPLIED AS AN ACTIVE AGENT IN COSMETIC FORMULATION

THE 3RD APPLIED SCIENCES RESEARCH AND INNOVATION CONFERENCE 2024 (ASRIC2024)

2024 PROCEEDING MYCITE CORRESPONDING AUTHOR

## 3. DECOMPOSITION OF LIGNOCELLULOSE MATERIAL FROM OIL PALM EMPTY FRUIT BUNCH (OPEFB) USING SULFATE-BASED IONIC LIQUID

3RD APPLIED SCIENCES RESEARCH INTERNATIONAL CONFERENCE (ASRIC2024)

2024 PROCEEDING MYCITE CO-AUTHOR

## 4. DECOMPOSITION OF LIGNOCELLULOSE MATERIAL FROM COCONUT HUSK FIBER USING SULFATE-BASED IONIC LIQUID

THE 3RD APPLIED SCIENCES RESEARCH AND INNOVATION CONFERENCE 2024 (ASRIC2024)

2024 PROCEEDING MYCITE CO-AUTHOR

## 5. CHARACTERIZATION OF A LIPASE-PRODUCING YEAST STRAIN IDENTIFIED AS HANSENIASPORA SP.

2ND INTERNATIONAL BIOMECS SYMPOSIUM (IBS) 2024

2024 PROCEEDING MYCITE CO-AUTHOR

## 6. EVALUATION OF BIOPLASTICS PRODUCED FROM BANANA PEELS AND CHITOSAN

THE 3RD APPLIED SCIENCES RESEARCH AND INNOVATION CONFERENCE 2024 (ASRIC2024)

2024 PROCEEDING MYCITE CO-AUTHOR

## 7. ANTIBACTERIAL AND PHYSICOCHEMICAL PROPERTIES OF PALM AND OLIVE- BASED WAX ESTERS.

THE 3RD VIRTUAL INTERNATIONAL SYMPOSIUM ON SCIENCES 2023 (VISOS 2023)

2023 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 8. OPTIMIZATION OF THE SYNTHESIS OF WAX ESTER FROM OLIVE-BASED FATTY ACID BY RESPONSE SURFACE METHODOLOGY

THE 3RD INTERNATIONAL SYMPOSIUM ON SCIENCES 2023

2023 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 9. OPTIMIZATION OF THE SYNTHESIS PALM-BASED WAX ESTER VIA RESPONSE SURFACE METHOD.

3RD VIRTUAL INTERNATIONAL SYMPOSIUM ON SCIENCES 2023 (3RD VISOS 2023)

2023 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

## 10. CHARACTERIZATION AND ANTIMICROBIAL ACTIVITY OF CHITOSAN EXTRACTED FROM SQUID PEN WASTES

3RD VIRTUAL INTERNATIONAL SYMPOSIUM ON SCIENCES 2023 (3RD VISOS 2023)

2023 PROCEEDING NON-INDEX CO-AUTHOR

## 11. PRELIMINARY STUDY ON THE USE OF MAGNETIZE FE<sub>3</sub>O<sub>4</sub>-ZRO<sub>2</sub> CATALYST FOR BIODIESEL PRODUCTION

SEMINAR ANTARABANGSA ISLAM DAN SAINS 2023

2023 PROCEEDING NON-INDEX MAIN AUTHOR

## 12. OPTIMIZATION OF THE BIODIESEL PRODUCTION VIA TRANSESTERIFICATION REACTION OF PALM OIL USING RESPONSE SURFACE METHODOLOGY (RSM): A REVIEW

MALAYSIAN JOURNAL OF SCIENCE, HEALTH & TECHNOLOGY

2022 JOURNAL ERA CORRESPONDING AUTHOR

## 13. A REVIEW ON APPLICATION OF IMMOBILIZED PEROXIDASE TECHNOLOGIES IN WASTEWATER TREATMENT

2ND APPLIED SCIENCE RESEARCH INTERNATIONAL CONFERENCE 2022 (2ND ASRIC 2022)

2022 PROCEEDING MYCITE CO-AUTHOR

# PUBLICATION

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## 14. IMMOBILIZATION OF AMYLASE ON NANOPARTICLES: A REVIEW

INTERNATIONAL BIOMECS SYMPOSIUM (IBS) 2022

2022 PROCEEDING MYCITE CO-AUTHOR

## 15. OPTIMIZATION OF THE BIODIESEL PRODUCTION VIA TRANSESTERIFICATION REACTION OF PALM OIL USING RESPONSE SURFACE METHODOLOGY (RSM): A REVIEW

2ND APPLIED SCIENCE RESEARCH INTERNATIONAL CONFERENCE 2022 (2ND ASRIC 2022)

2022 PROCEEDING MYCITE MAIN AUTHOR

## 16. BIOTECHNOLOGICAL PRODUCTION OF BIOFLAVOURS USING YEAST: A MINIREVIEW

2ND APPLIED SCIENCE RESEARCH INTERNATIONAL CONFERENCE 2022 (2ND ASRIC 2022)

2022 PROCEEDING OTHER DATABASE CORRESPONDING AUTHOR

## 17. HIGH PERFORMANCE OF LIPASE CATALYZED SYNTHESIS OF KOJIC ACID MONOOLEATE IN DUAL ENZYME SYSTEM

NACOSS VI 2021

2021 PROCEEDING NON-INDEX MAIN AUTHOR

## 18. HIGH PERFORMANCE OF LIPASE CATALYZED SYNTHESIS OF KOJIC ACID MONOOLEATE IN DUAL ENZYME SYSTEM

NACOSS VI 2021

2021 PROCEEDING NON-INDEX MAIN AUTHOR

## 19. SYNTHESIS AND ANTIMICROBIAL STUDY OF KOJIC ACID MONOOLEATE

VIRTUAL SYMPOSIUM ON SCIENCES 2021

2021 PROCEEDING NON-INDEX MAIN AUTHOR

## 20. CARPTENOID PIGMENTS FROM RHODOTORULA MUCILAGINOSA FOR FOOD APPLICATIONS: A REVIEW

NACOSS VI 2021

2021 PROCEEDING NON-INDEX CO-AUTHOR

## 21. EFFECT OF PH AND NUTRITIONAL FACTORS ON BACTERIAL GROWTH AND CAROTENOIDS PIGMENTS PRODUCTION BY LOCAL BACTERIAL ISOLATES VIA VARYING ONE PARAMETER AT-A-TIME APPROACH.

WORLD JOURNAL OF PHARMACEUTICAL AND LIFE SCIENCES

2020 JOURNAL OTHER DATABASE CO-AUTHOR

## 22. EFFECT OF PH AND NUTRITIONAL FACTORS ON BACTERIAL GROWTH AND CAROTENOIDS PIGMENTS PRODUCTION BY LOCAL BACTERIAL ISOLATES VIA VARYING ONE PARAMETER AT-A-TIME APPROACH

WORLD JOURNAL OF PHARMACEUTICAL AND LIFE SCIENCES

2020 JOURNAL SCOPUS CO-AUTHOR

## 23. CHECKLIST OF MARINE FUNGI AND YEASTS ASSOCIATED WITH HOLOTHURIA (MERTENSIOTHURIA) LEUCOSPILOTA FROM PANGKOR ISLAND.

JOURNAL OF SUSTAINABLE NATURAL RESOURCES

2020 JOURNAL OTHER DATABASE CO-AUTHOR

## 24. CHECKLIST OF MARINE FUNGI AND YEASTS ASSOCIATED WITH HOLOTHURIA (MERTENSIOTHURIA) LEUCOSPILOTA FROM PANGKOR ISLAND

JOURNAL OF SUSTAINABLE NATURAL RESOURCES

2020 JOURNAL OTHER DATABASE CO-AUTHOR

## 25. EVALUATION OF CONSORTIUM ENZYME TOWARDS KOJIC ACID SYNTHESIS

MALAYSIAN JOURNAL OF SCIENCE HEALTH & TECHNOLOGY

2020 JOURNAL OTHERS DATABASE MAIN AUTHOR

## 26. EVALUATION OF CONSORTIUM ENZYME TOWARDS KOJIC ACID SYNTHESIS.

MJOST

2020 JOURNAL OTHER DATABASE MAIN AUTHOR / CONTACT PERSON IN USIM

# PUBLICATION

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## 27. LIPASE CATALYZED SYNTHESIS OF KOJIC ACID MONOOLEATE IN ORGANIC SOLVENT.

VIRTUAL SYMPOSIUM ON SCIENCES 2020 (VSOS 2020)

2020 PROCEEDING NON-INDEX MAIN AUTHOR

## 28. THE ADSORPTION BEHAVIOUR OF LIPASE IMMOBILIZED ONTO NATURAL CARRIER MATRICES

VIRTUAL SYMPOSIUM ON SCIENCES 2020 (VSOS 2020)

2020 PROCEEDING NON-INDEX CO-AUTHOR

## 29. EVALUATION ON CONSORTIUM ENZYME TOWARDS KOJIC ACID SYNTHESIS

ADVANCES IN MATERIALS SEMINAR 2019 (AIMS2019)

2019 PROCEEDING NON-INDEX MAIN AUTHOR

## 30. EFFECT OF PH ON BACTERIAL GROWTH AND RED PIGMENT PRODUCTION BY SERRATIA MARCESCENS

NATIONAL CONFERENCE ON THE HUMANITIES AND SOCIAL SCIENCES (NACOSS)

2019 PROCEEDING NON-INDEX CO-AUTHOR

## 31. COMBINATION EFFECTS OF CYMBOPOGON SP. ESSENTIAL OIL ON SELECTED BACTERIA.

MALAYSIAN JOURNAL OF SCIENCE, HEALTH AND TECHNOLOGY

2018 JOURNAL SCOPUS CO-AUTHOR

## 32. CYMBOPOGON NARDUS ESSENTIAL OIL AS PROTEIN INDUCER IN BACILLUS SUBTILIS ATCC21332

MALAYSIAN JOURNAL OF SCIENCE, HEALTH AND TECHNOLOGY

2018 JOURNAL SCOPUS CO-AUTHOR

## 33. EFFECTS OF ENVIRONMENTAL AND GROWTH CONDITIONS ON PROTEIN PRODUCED BY BACILLUS SUBTILIS ATCC21332 IN THE PRESENCE OF CYMBOPOGON FLEXUOSUS ESSENTIAL OIL.

MALAYSIAN APPLIED BIOLOGY

2018 JOURNAL SCOPUS CO-AUTHOR

## 34. EFFECT OF ETHYL PENTANOATE ON ANTI- QUORUM ACTIVITY OF EXTRACELLULAR PROTEIN SECRETED BY BACILLUS SUBTILIS ATCC11774.

INTERNATIONAL JOURNAL OF ENGINEERING TECHNOLOGIES AND MANAGEMENT RESEARCH

2018 JOURNAL SCOPUS CO-AUTHOR

## 35. ANTIMICROBIAL ACTIVITY OF EXTRACELLULAR PROTEINS SECRETED BY BACILLUS SUBTILIS ATCC21332 AFTER BEING INDUCED WITH CYMBOPOGON FLEXUOSUS ESSENTIAL OIL AND CULTURED IN DIFFERENT GROWTH CONDITIONS.

INTERNATIONAL JOURNAL FOR RESEARCH IN APPLIED SCIENCE & ENGINEERING TECHNOLOGY

2018 JOURNAL SCOPUS CO-AUTHOR

## 36. BASIC PRINCIPLES AND SAMPLE PREPARATION OF CHROMATOGRAPHY TECHNIQUES.

SCIENCE AND TECHNOLOGY MODULE: TECHNIQUES AND INSTRUMENTS IMPLEMENTED FOR HALAL ANALYSIS OF PRODUCTS

2018 CHAPTER IN BOOK CO-AUTHOR

## 37. EVALUATION OF TYROSINASE ACTIVITY AND RADICAL SCAVENGING ACTIVITY OF KOJIC ACID AND KOJIC ACID MONOOLEATE

ADVANCED SCIENCE LETTERS

2017 JOURNAL SCOPUS MAIN AUTHOR

## 38. EFFECTS OF CYMBOPOGON FLEXUOSUS ESSENTIAL OIL AND PH ON ANTI-COAGULANT ACTIVITY OF EXTRACELLULAR PROTEINS SECRETED BY BACILLUS SUBTILIS ATCC21332

INTERNATIONAL JOURNAL OF SCIENCE, ENVIRONMENT AND TECHNOLOGY

2017 JOURNAL SCOPUS CO-AUTHOR

## 39. CHROMATOGRAPHY: PRINCIPLES AND ITS SAMPLE PREPARATION

HALAL SCIENCE AND TECHNOLOGY MODULE (TECHNIQUES AND INSTRUMENTS IMPLEMENTED FOR HALAL ANALYSIS OF PRODUCTS)

2017 CHAPTER IN BOOK CO-AUTHOR

# PUBLICATION

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## 40. OPTIMIZATION OF EUGENOL ESTER USING STATISTICAL APPROACH OF RESPONSE SURFACE METHODOLOGY

MATERIALS SCIENCE FORUM

2016 JOURNAL SCOPUS MAIN AUTHOR

## 41. STEARIC ACID ESTERS SYNTHESIZED USING IRON EXCHANGED MONTMORILLONITE K10 CLAY CATALYSTS

INTERNATIONAL JOURNAL OF APPLIED CHEMISTRY

2016 JOURNAL SCOPUS CO-AUTHOR

## 42. METALCATIONEXCHANGEDMONTMORILLONITEK10(MMTK10):SURFACEPROPERTIESANDCATALYTICACTIVITY

JOURNAL OF SCIENTIFIC RESEARCH AND DEVELOPMENT

2016 JOURNAL SCOPUS CO-AUTHOR

## 43. THE MIRACLE OF HABBATUSSAUDA

CHEMISTRY OF FOOD, HEALTH AND TECHNOLOGY.

2016 CHAPTER IN BOOK CO-AUTHOR & CO-EDITOR

## 44. ANTIBACTERIAL STUDY OF OLIVE-BASED FERULATE ESTERS

WORLD JOURNAL OFPHARMACY AND PHARMACEUTICAL SCIENCES

2015 JOURNAL SCOPUS MAIN AUTHOR

## 45. IMPROVEMENT ON THE CATALYTIC PERFORMANCE USING DUAL LIPASES SYSTEM IN THE SYNTHESIS OF FERULATE ESTERS

APPLIED MECHANIS AND MATERIALS

2015 JOURNAL SCOPUS MAIN AUTHOR

## 46. ANTIMICROBIAL PROTEIN PRODUCED BY LACTOBACILLUS PLANTARUM ATCC8014 IN THE PRESENCE OF CYMBOPOGON SP. ESSENTIAL OILS

APPLIED MECHANICS AND MATERIALS

2015 JOURNAL SCOPUS CO-AUTHOR

## 47. DUAL LIPASES SYSTEM IN TRANSESTERIFICATION OF ETHYL FERULATE WITH OLIVE OIL: OPTIMIZATION BY RESPONSE SURFACE METHODOLOGY

ASIAN JOURNAL OF APPLIED SCIENCES

2015 JOURNAL SCOPUS MAIN AUTHOR

## 48. OPTIMIZATION OF OLEYL ESTER USING STATISTICAL APPROACH OF RESPONSE SURFACE METHODOLOGY

INTERNATIONAL INSTITUTE OF CHEMICAL, BIOLOGICAL & ENVIRONMENTAL ENGINEERING (IICBEE)

2015 PROCEEDING NON-INDEX MAIN AUTHOR

## 49. PROTEIN PRODUCED BY BACILLUS SUBTILIS ATCC11774 AFTER INDUCING WITH ALLIUM SATIVUM EXTRACT

INTERNATIONAL CONFERENCE ON CHEMICAL, ENVIRONMENTAL AND BIOLOGICAL SCIENCES

2015 PROCEEDING NON-INDEX CO-AUTHOR

## 50. HABBATUSSAUDA

AQLI AND NAQLI

2015 CHAPTER IN BOOK CO-AUTHOR & CO-EDITOR

## 51. HIGH YIELD SYNTHESIS OF KOJIC ESTER USING DUAL ENZYMES SYSTEM AND THEIR ANTIBACTERIAL ACTIVITY

KEY ENGINEERING MATERIALS

2014 JOURNAL SCOPUS MAIN AUTHOR

## 52. PROTEIN PRODUCED BY BACILLUS SUBTILIS ATCC21332 IN THE PRESENCE OF CYMBOPOGON FLEXUOSUS ESSENTIAL OIL

KEY ENGINEERING MATERIAL

2014 JOURNAL SCOPUS CO-AUTHOR

# PUBLICATION

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## 53. STUDY ON ANTI-QUORUM SENSING POTENTIAL OF SELECTED LOCAL ULAM IN MALAYSIA

WORLD JOURNAL OF PHARMACY AND PHARMACEUTICAL SCIENCES

2014 JOURNAL SCOPUS CO-AUTHOR

## 54. ENZYMATIC SYNTHESIS OF OLIVE-BASED FERULATE ESTERS: OPTIMIZATION BY RESPONSE SURFACE METHODOLOGY

INTERNATIONAL JOURNAL OF CHEMICAL, NUCLEAR AND MATERIALS ENGINEERING

2014 JOURNAL SCOPUS MAIN AUTHOR

## 55. EXTRACELLULAR PROTEIN SECRETED BY BACILLUS SUBTILIS ATCC21332 IN THE PRESENCE OF STREPTOMYCIN SULFATE

INTERNATIONAL JOURNAL OF CHEMICAL, NUCLEAR AND MATERIALS ENGINEERING

2014 JOURNAL SCOPUS CO-AUTHOR

## 56. PROTEIN PRODUCED BY LACTOBACILLUS PLANTARUM ATCC 8014 DURING STRESS

WORLD JOURNAL OF SCIENCE AND TECHNOLOGY RESEARCH

2013 JOURNAL SCOPUS CO-AUTHOR

## 57. PROTEIN SECRETED BY BACILLUS SUBTILIS ATCC 21332 IN THE PRESENCE OF ALLIUM SATIVUM

AMERICAN JOURNAL OF BIOLOGICAL, CHEMICAL AND PHARMACEUTICAL SCIENCES

2013 JOURNAL SCI CO-AUTHOR

## 58. BIOACTIVE PROTEIN PRODUCED BY LACTOBACILLUS PLANTARUM ATCC 8014 IN THE PRESENCE OF ALLIUM SATIVUM

INTERNATIONAL JOURNAL OF MEDICAL SCIENCES AND HEALTH CARE

2013 JOURNAL SCI CO-AUTHOR

## 59. OPTIMIZATION VIA RESPONSE SURFACE METHODOLOGY (RSM) OF DUAL ENZYMES SYSTEM FOR THE PRODUCTION OF FERULATE ESTER

38TH ANNUAL CONFERENCE OF THE MALYSIAN SOCIETY FOR BIOCHEMISTRY AND MOLECULAR BIOLOGY

2013 PROCEEDING NON-INDEX MAIN AUTHOR

## 60. HIGH YIELD SYNTHESIS OF KOJIC ESTER USING DUAL ENZYMES SYSTEM AND THEIR ANTIBACTERIAL ACTIVITIES

2ND INTERNATIONAL CONFERENCE ON ADVANCE MATERIAL ENGINEERING @ TECHNOLOGY

2013 PROCEEDING NON-INDEX MAIN AUTHOR

## 61. BASICS OF CHROMATOGRAPHY TECHNIQUE AND ITS SAMPLE PREPARATION

HALAL SCIENCE AND TECHNOLOGY FOR PROFESSIONAL HALAL ANALYST PROGRAM

2013 CHAPTER IN BOOK MAIN AUTHOR

## 62. OPTIMIZATION VIA RESPONSE SURFACE METHODOLOGY (RSM) OF DUAL ENZYMES SYSTEM FOR THE PRODUCTION OF FERULATE ESTER

MALYSIAN INTERNATIONAL CONFERENCE ON TRENDS IN BIOPROCESS ENGINEERING (MICOTRIBE 2012)

2012 PROCEEDING NON-INDEX MAIN AUTHOR

## 63. KINETIC MODELLING OF IMMOBILIZED CANDIDA RUGOSA LIPASE CATALYZED ESTERIFICATION OF BUTYL OLEATE

INTERNATIONAL CONFERENCE ON HALAL SCIENCE AND TECHNOLOGY

2012 PROCEEDING NON-INDEX CO-AUTHOR

## 64. THE POTENTIAL OF ANTIMICROBIAL COMPOUNDS AS AN INDUCER FOR PROTEIN PRODUCTION BY BACILLUS SUBTILIS ATCC21332 AND LACTOBACILLUS PLANTARUM ATCC8014

FUNDAMENTAL SCIENCE CONGRESS 2012

2012 PROCEEDING NON-INDEX CO-AUTHOR

## 65. PHYSICO-CHEMICAL CHARACTERIZATION AND IMMOBILIZATION ON CANDIDA RUGOSA LIPASE ONTO NANOFIBERS FROM KENAF CORE

MALYSIAN INTERNATIONAL CONFERENCE ON TRENDS IN BIOPROCESS ENGINEERING

2012 PROCEEDING NON-INDEX CO-AUTHOR

# PUBLICATION

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## 66. NANOCLAY AS POTENTIAL SUPPORT FOR IMMOBILIZATION OF LIPASE FROM CANDIDA ROGISA PHYSICO-CHEMICAL PROPERTIES

INTERNATIONAL ANNUAL SYMPOSIUM ON SUSTAINABILITY SCIENCE AND MANAGEMENT 2012

2012 PROCEEDING NON-INDEX CO-AUTHOR

## 67. BASIC OF CHROMATOGRAPHY AND ITS SAMPLE PREPARATION

MODUL FOR KTP FLAGSHIP

2012 CHAPTER IN BOOK MAIN AUTHOR

## 68. PHARMACODYNAMIC PROPERTIES OF ESSENTIAL OILS FROM CYMBOPOGON SP

AFRICAN JOURNAL OF PHARMACY AND PHARMACOLOGY

2011 JOURNAL WOS CO-AUTHOR

## 69. GREEN SYNTHESIS OF BUTYL ACETATE, A PINEAPPLE FLAVOR VIA LIPASE-CATALYZED REACTION

WORLD APPLIED SCIENCE AND TECHNOLOGY JOURNAL

2011 JOURNAL WOS MAIN AUTHOR

## 70. PROTEIN PRODUCTION BY BACILLUS SUBTILIS ATCC 21332 IN THE PRESENCE OF CYMBOPOGON ESSENTIAL OILS

WORLD APPLIED SCIENCE AND TECHNOLOGY JOURNAL

2011 JOURNAL WOS CO-AUTHOR

## 71. OPTIMIZATION OF LIPASE CATALYZED SYNTHESIS OF NONYL CAPRYLATE USING RESPONSE SURFACE METHODOLOGY (RSM)

JOURNAL OF BIOTECHNOLOGY & BIOMATERIALS

2011 JOURNAL WOS MAIN AUTHOR

## 72. OPTIMIZATION OF LIPASE CATALYZED SYNTHESIS OF ETHYL VALERATE, A GREEN APPLE FLAVOR USING RESPONSE SURFACE METHODOLOGY (RSM)

JOURNAL OF ENVIRONMENTAL SCIENCE AND ENGINEERING

2011 JOURNAL WOS MAIN AUTHOR

## 73. GREEN SYNTHESIS OF BUTYL ACETATE, A PINEAPPLE FLAVOUR VIA LIPASE-CATALYZED REACTION

ICACCE 2011 : INTERNATIONAL CONFERENCE ON APPLIED CHEMISTRY AND CHEMICAL ENGINEERING

2011 PROCEEDING NON-INDEX MAIN AUTHOR

## 74. OPTIMIZATION OF LIPASE CATALYZED SYNTHESIS OF FLAVOR ESTER USING RESPONSE SURFACE METHODOLOGY (RSM)

THE 24TH REGIONAL SYMPOSIUM MALAYSIAN ANALYTICAL SCIENCES (SKAM-24)

2011 PROCEEDING NON-INDEX MAIN AUTHOR

## 75. OPTIMIZATION OF LIPASE CATALYZED SYNTHESIS OF NONYL CAPRYLATE, A CITRUS AND ROSE FLAVOR USING RESPONSE SURFACE METHODOLOGY (RSM)

10TH INTERNATIONAL ANNUAL SYMPOSIUM

2011 PROCEEDING NON-INDEX MAIN AUTHOR

## 76. STUDY ON ANTIMICROBIAL ACTIVITY OF ETHYL VALERATE, A FRUITY FLAVOUR ESTER

22ND PACIFIC SCIENCE CONGRESS, KLCC, MALAYSIA

2011 PROCEEDING NON-INDEX MAIN AUTHOR

## 77. STUDY OF ANTIMICROBIAL EFFECT OF SOLANUM MACROCARPON

INTERNATIONAL CONFERENCE ON NATURAL PRODUCTS 2011

2011 PROCEEDING NON-INDEX CO-AUTHOR

## 78. ANTI-QUARUM SENSING ACTIVITY OF LOCAL ULAM IN MALAYSIA

INTERNATIONAL CONFERENCE ON NATURAL PRODUCTS 2011

2011 PROCEEDING NON-INDEX CO-AUTHOR

# PUBLICATION

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## 79. EFFECTS OF ESSENTIAL OILS-INDUCED STRESS ON PROTEIN PRODUCTION BY BACILLUS SUBTILIS ATCC 21332

THE 24TH REGIONAL SYMPOSIUM MALAYSIAN ANALYTICAL SCIENCES (SKAM-24)

2011 PROCEEDING NON-INDEX CO-AUTHOR

## 80. PROTEIN PRODUCTION BY BACILLUS SUBTILIS ATCC 21332 IN THE PRESENCE OF CYMBOPOGON ESSENTIAL OILS

ICBBS 2011 : INTERNATIONAL CONFERENCE ON BIOTECHNOLOGY AND BIOSCIENCE

2011 PROCEEDING NON-INDEX CO-AUTHOR

## 81. GREEN SYNTHESIS OF LAURYL PALMITATE VIA LIPASE-CATALYZED REACTION

WORLD APPLIED SCIENCE JOURNAL

2010 JOURNAL WOS CO-AUTHOR

## 82. KINETICS OF ENZYMATIC SYNTHESIS OF LIQUID WAX ESTER FROM OLEIC ACID AND OLEYL ALCOHOL

JOURNAL OF OLEO SCIENCE

2010 JOURNAL WOS MAIN AUTHOR

## 83. PROCESS IMPROVEMENT ON THE LIPASE-CATALYZED SYNTHESIS OF OLEYL PALMITATE, A WAX ESTER VIA RESPONSE SURFACE METHODOLOGY (RSM)

JOURNAL OF CHEMISTRY AND CHEMICAL ENGINEERING

2010 JOURNAL WOS MAIN AUTHOR

## 84. OPTIMIZATION OF LIPASE CATALYZED SYNTHESIS OF ETHYL VALERATE, A GREEN APPLE FLAVOR USING RESPONSE SURFACE METHODOLOGY (RSM)

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2010 JOURNAL WOS MAIN AUTHOR

## 85. OPTIMIZATION OF LIPASE-CATALYZED SYNTHESIS OF ETHYL VALERATE, A GREEN APPLE FLAVOR USING RESPONSE SURFACE METHODOLOGY

THE 3RD PENANG INTERNATIONAL CONFERENCE FOR YOUNG CHEMISTS (PENANG ICYC) 2010

2010 PROCEEDING NON-INDEX MAIN AUTHOR

## 86. RESPONSE SURFACE METHODOLOGICAL STUDY ON THE GREEN SYNTHESIS OF NONYL CAPRYLATE, A FLAVOUR ESTER VIA LIPASE CATALYZED REACTION

THE 2ND INTERNATIONAL CONFERENCE ON CHEMICAL SCIENCES, 2010

2010 PROCEEDING NON-INDEX MAIN AUTHOR

## 87. PRELIMINARY STUDY ON THE OPTIMIZATION OF LIPASE-CATALYZED SYNTHESIS OF FLAVOUR ESTERS IN SOLVENT FREE SYSTEM

REGIONAL ANNUAL FUNDAMENTAL SCIENCE SYMPOSIUM (RAFSS 2010)

2010 PROCEEDING NON-INDEX MAIN AUTHOR

## 88. ANTIMICROBIAL ACTIVITY OF NEWLY SYNTHESIZED FLAVOR ESTER

SEMINAR KEBANGSAAN APLIKASI SAINS DAN MATEMATIK 2010 (SKASM 2010)

2010 PROCEEDING NON-INDEX MAIN AUTHOR

## 89. COMBINATION EFFECTS OF ESSENTIAL OILS FROM CYMBOPOGON SP.

SEMINAR KEBANGSAAN APLIKASI SAINS DAN MATEMATIK 2010 (SKASM 2010)

2010 PROCEEDING NON-INDEX CO-AUTHOR

## 90. PHARMACODYNAMIC PROPERTIES OF ESSENTIAL OILS FROM CYMBOPOGON SP.

SEMINAR KEBANGSAAN APLIKASI SAINS DAN MATEMATIK 2010 (SKASM 2010)

2010 PROCEEDING NON-INDEX CO-AUTHOR

## 91. A NEW APPROACH OF THE SYNTHESIZING FERULATE ESTER A SUNSCREEN AGENT VIA LIPASE-CATALYZED REACTION

PROGRAM BOOK AND ABSTRACT: EXPO INOVASI ISLAM 2010

2010 CHAPTER IN BOOK MAIN AUTHOR

# PUBLICATION

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## 92. ANTI QUARUM SENSING OF SELECTED LOCAL ULAM

PROGRAM BOOK AND ABSTRACT: EKPO INOVASI ISLAM 2010

2010 CHAPTER IN BOOK CO-AUTHOR

## 93. NATURAL INSOLUBLE MATERIALS AS POTENTIAL SUPPORT FOR ENZYME IMMOBILIZATION

PROGRAM BOOK AND ABSTRACT: EXPO INOVASI ISLAM 2010

2010 CHAPTER IN BOOK CO-AUTHOR

## 94. STUDY OF ENZYMATIC SYNTHESIS OF BUTYL ACETATE USING IMMOBILIZED LIPASE FROM RHIZOMUCOR MIEHEI

2ND THE INTERNATIONAL CONFERENCE ON BIOTECHNOLOGY WELLNESS INDUSTRY

2009 PROCEEDING NON-INDEX MAIN AUTHOR

## 95. STUDY OF ENZYMATIC SYNTHESIS OF BUTYL ACETATE USING IMMOBILIZED LIPASE FROM RHIZOMUCOR MIEHEI

2ND THE INTERNATIONAL CONFERENCE ON BIOTECHNOLOGY WELLNESS INDUSTRY

2009 PROCEEDING NON-INDEX MAIN AUTHOR

## 96. STUDY OF ENZYMATIC SYNTHESIS OF BUTYL ACETATE USING IMMOBILIZED LIPASE FROM RHIZOMUCOR MIEHEI

INTERNATIONAL CONFERENCE ON BIOTECHNOLOGY WELLNESS INDUSTRY

2009 PROCEEDING NON-INDEX MAIN AUTHOR

## 97. IN VITRO EFFECT OF NEW FRACTION (SWA 13) FROM SWEET LEMON GRASS CYMBOPOGON NARDUS L. RENDLE) TOWARDS HERPES SIMPLEX VIRUS TYPE 1

2ND INTERNATIONAL CONFERENCE ON BIOTECHNOLOGY FOR THE WELLNESS INDUSTRY

2009 PROCEEDING NON-INDEX CO-AUTHOR

## 98. BIOORGANIC SYNTHESIS OF WAX ESTER BY IMMOBILIZED LIPASE

2ND INTERNATIONAL CONFERENCE FOR YOUNG CHEMIST 2008

2008 PROCEEDING NON-INDEX CO-AUTHOR

## 99. HIGH PERFORMANCE ENZYMATIC SYNTHESIS OF OLEYL LAURATE BY NOVOZYM 435

REGIONAL ANNUAL FUNDAMENTAL SCIENCE SEMINAR 2008

2008 PROCEEDING NON-INDEX CO-AUTHOR

## 100. NATURAL FELDSPAR AS SUPPORT FOR LIPASE IMMOBILIZATION IN THE SYNTHESIS OF WAX ESTER

14TH INTERNATIONAL CONGRESS ON CATALYSIS

2008 PROCEEDING NON-INDEX CO-AUTHOR

## 101. STUDY ON RESPONSE SURFACE METHODOLOGY (RSM) ON LIPASE-CATALYZED SYNTHESIS OF OLEYL PALMITATE

BIOENERGY II: FUELS AND CHEMICALS FROM RENEWABLE RESOURCES

2008 PROCEEDING NON-INDEX CO-AUTHOR

## 102. IN VITRO EFFECT OF NEW FRACTION (SWA 13) FROM SWEET LEMON GRASS (CYMBOPOGON NARDUS L. RENDLE) TOWARDS HERPES SIMPLEX VIRUS TYPE 1

REGIONAL ANNUAL FUNDAMENTAL SCIENCE SEMINAR 2008

2008 PROCEEDING NON-INDEX CO-AUTHOR

## 103. PROCESS IMPROVEMENT IN THE PRODUCTION OF OLEYL OLEATE, A LIQUID WAX ESTER IN STIRRED TANK REACTOR

13TH INTERNATIONAL BIOTECHNOLOGY SYMPOSIUM AND EXHIBITION: BIOTECHNOLOGY FOR SUSTAINABLE OF HUMAN SOCIETY

2008 PROCEEDING NON-INDEX CO-AUTHOR

## 104. LARGE SCALE PRODUCTION OF LIQUID WAX ESTER: IMPACT ON RHEOLOGICAL PROPERTY OF REACTION MIXTURE AND SURFACE MORPHOLOGY OF IMMOBILIZED ENZYME

INTERNATIONAL CONFERENCE ON ADVANCEMENT OF MATERIALS AND NANOTECHNOLOGY 2007

2007 PROCEEDING NON-INDEX CO-AUTHOR

# PUBLICATION

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## 105. ALCHEMIE: FROM THE ISLAMIC PAST TO THE MODERN WORLD

SAINS ISLAM MERENTASI ZAMAN

2007

CHAPTER IN BOOK

CO-AUTHOR

## 106. LIQUID WAX ESTER (OLEYL OLEATE)

SPECIALTY ESTERS: ALTERNATIVE GREEN SYNTHESIS PROCESS

2005

CHAPTER IN BOOK

CO-AUTHOR

# CONSULTATION

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## 1. FULL PAPER REVIEWER FOR THE KOLOKIUUM SISWAZAH SAINS DAN TEKNOLOGI 2018

FST

2018 UNIVERSITY

## 2. PERUNDINGAN BAGI PELAJAR KURSUS SEMINAR KEPUJIAN

2014 UNIVERSITY

## 3. PERUNDINGAN BAGI PELAJAR SISWAZAH

2014 UNIVERSITY

## 4. PERUNDINGAN BAGI PELAJAR TESIS TAHUN AKHIR

2014 UNIVERSITY

## 5. REVIEWER FOR RESEARCH PAPER ENTITLED "OPTIMIZATION OF NOVEL METHOD FOR THE EXTRACTION OF STEVIOSIDE FROM STEVIA REBAUDIANA LEAVES" PUBLISHED IN JOURNAL OF FOOD CHEMISTRY

2011 INTERNATIONAL

## 6. PERUNDINGAN BAGI PELAJAR SISWAZAH

2011 INTERNATIONAL

## 7. PERUNDINGAN BAGI PELAJAR TESIS TAHUN AKHIR (PROGRAM TEKNOLOGI KIMIA PERINDUSTRIAN)

2011 INTERNATIONAL

## 8. PERUNDINGAN BAGI PELAJAR PROGRAM TEKNOLOGI KIMIA PERINDUSTRIAN (KURSUS SEMINAR KEPUJIAN)

2011 INTERNATIONAL

## 9. REVIEWER FOR RESEARCH PAPAER ENTITLED 'HIGH YIELD LIPASE-CATALYZED SYNTHESIS OF ENKABANG FAT ESTERS FOR THE COSMETIC INDUSTRY BIORESOURCE TECHNOLOGY'

JOURNAL OF BIORESOURCE TECHNOLOGY

2010 INTERNATIONAL

## 10. PERUNDINGAN BAGI PELAJAR SISWAZAH

2010 UNIVERSITY

## 11. PERUNDINGAN BAGI PELAJAR TESIS TAHUN AKHIR (PROGRAM BIOTEKNOLOGI MAKANAN)

2010 OTHERS

# AWARDS/RECOGNITION

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## 1. SYNTHESIS AND BIOLOGICAL STUDIES OF WAX ESTER FROM OLIVE-BASED FATTY ACID AS RAW MATERIAL FOR COSMETIC FORMULATION

4TH INNOVATION BANK CHALLENGE 2024 (IBC 2024)

2024 UNIVERSITI SILVER

## 2. IONIC LIQUIDS AS GREEN SOLVENTS FOR CHF BIOMASS PRETREATMENT

4TH INNOVATION BANK CHALLENGE 2024 (IBC 2024)

2024 UNIVERSITI SILVER

## 3. OUTSTANDING ACHIEVEMENT AWARD 2018

2020 OTHERS

## 4. AWARD OF APPRECIATION 2019

2020 OTHERS

## 5. TOP 100 RESEARCHERS USIM ( 2013-2017)

TOP 100 RESEARCHERS

2018 UNIVERSITI CERTIFICATE OF APPRECIATION

## 6. PROFESSIONAL HALAL TRAINING PROGRAMME

THE INTERNATIONAL CONFERENCE AND EXPOSITION ON INVENTION (PECIPTA 17)

2017 UNIVERSITI SILVER

## 7. ANUGERAH PERKHIDMATAN CEMERLANG

2014 UNIVERSITY

## 8. ANUGERAH PENYELIDIKAN

2013 UNIVERSITY