Profile Image

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PENSYARAH UNIVERSITI DS14

CONTACT

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FACULTY

Fakulti Sains Dan Teknologi

SUPERVISION

	COMPLETED	ONGOING
PhD	0	1
Master	11	0

AREAS OF EXPERTISE

Bioorganic Chemistry

ACADEMIC QUALIFICATION

2006 **PhD** - Kimia Sintesis

2001 **Bachelor** - Kimia Industri

RESEARCH

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

2022 | GERAN PENYELIDIKAN USIM | ON GOING | MAIN RESEARCHER

2. **EVALUATION OF TYROSINSE AND FREE RADICAL SCAVENGING ACTIVITIES OF KOJIC ACID (KA) KOJIC ACID MONOOLEATE(KAMO)**

2016 | GERAN PENYELIDIKAN TRANSLASIONAL | COMPLETED | MAIN RESEARCHER

3. **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

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

2012 | GERAN PENYELIDIKAN USIM | COMPLETED | MAIN RESEARCHER

5. **OPTIMIZATION VIA RESPONSE SURFACE METHODOLOGY (RSM) FOR EFFICIENT PRODUCTION OF FERULATE ESTER**

2011 | GERAN PENYELIDIKAN FUNDAMENTAL | COMPLETED | MAIN RESEARCHER

RESEARCH

6. GREEN SYNTHESIS OF FLAVOUR ESTER VIA LIPASE-CATALYZED REACTION

2008 | GERAN KPT | COMPLETED | MAIN RESEARCHER

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

2007 | GERAN PENYELIDIKAN FUNDAMENTAL | COMPLETED | MAIN RESEARCHER

PUBLICATION

1. PRELIMINARY STUDY ON THE USE OF MAGNETIZE FE3O4-ZRO2 CATALYST FOR BIODIESEL PRODUCTION

SEMINAR ANTARABANGSA ISLAM DAN SAINS 2023

2023 | PROCEEDING | NON-INDEX | MAIN AUTHOR

2. A REVIEW ON COSMETIC FORMULATIONS AND PHYSICOCHEMICAL CHARACTERISTICS OF EMOLLIENT AND DAY CREAM USING VEGETABLE BASED-WAX ESTER

MALAYSIAN JOURNAL OF SCIENCE, HEALTH AND TECHNOLOGY

2022 | JOURNAL | OTHER DATABASE | MAIN AUTHOR

3. 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

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

NACOSS VI 2021

2021 | PROCEEDING | NON-INDEX | MAIN AUTHOR

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

NACOSS VI 2021

2021 | PROCEEDING | NON-INDEX | MAIN AUTHOR

6. SYNTHESIS AND ANTIMICROBIAL STUDY OF KOJIC ACID MONOOLEATE

VIRTUAL SYMPOSIUM ON SCIENCES 2021

2021 | PROCEEDING | NON-INDEX | MAIN AUTHOR

7. EVALUATION OF CONSORTIUM ENZYME TOWARDS KOJIC ACID SYNTHESIS

MALAYSIAN JOURNAL OF SCIENCE HEALTH & TECHNOLOGY

2020 | JOURNAL | OTHERS DATABASE | MAIN AUTHOR

8. LIPASE CATALYZED SYNTHESIS OF KOJIC ACID MONOOLEATE IN ORGANIC SOLVENT.

VIRTUAL SYMPOSIUM ON SCIENCES 2020 (VSOS 2020)

2020 | PROCEEDING | NON-INDEX | MAIN AUTHOR

9. EVALUATION ON CONSORTIUM ENZYME TOWARDS KOJIC ACID SYNTHESIS

ADVANCES IN MATERIALS SEMINAR 2019 (AIMS2019)

2019 | PROCEEDING | NON-INDEX | MAIN AUTHOR

PUBLICATION

10. EVALUATION OF TYROSINASE ACTIVITY AND RADICAL SCAVENGING ACTIVITY OF KOJIC ACID AND KOJIC ACID MONOOLEATE

ADVANCED SCIENCE LETTERS

2017 JOURNAL SCOPUS MAIN AUTHOR

11. OPTIMIZATION OF EUGENOL ESTER USING STATISTICAL APPROACH OF RESPONSE SURFACE METHODOLOGY

MATERIALS SCIENCE FORUM

2016 JOURNAL SCOPUS MAIN AUTHOR

12. ANTIBACTERIAL STUDY OF OLIVE-BASED FERULATE ESTERS

WORLD JOURNAL OFPHARMACY AND PHARMACEUTICAL SCIENCES

2015 JOURNAL SCOPUS MAIN AUTHOR

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

APPLIED MECHANIS AND MATERIALS

2015 JOURNAL SCOPUS MAIN AUTHOR

14. 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

15. OPTIMIZATION OF OLEYL ESTER USING STATISTICAL APPROACH OF RESPONSE SURFACE METHODOLOG

INTERNATIONAL CONFERENCE ON CHEMICAL, ENVIRONMENTAL AND BIOLOGICAL SCIENCES

2015 JOURNAL OTHER DATABASE MAIN AUTHOR

16. 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

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

KEY ENGINEERING MATERIALS

2014 JOURNAL SCOPUS MAIN AUTHOR

18. 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

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

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

2013 PROCEEDING NON-INDEX MAIN AUTHOR

PUBLICATION

20. 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

21. BASICS OF CHROMATOGRAPHY TECHNIQUE AND ITS SAMPLE PREPARATION

HALAL SCIENCE AND TECHNOLOGY FOR PROFESSIONAL HALAL ANALYST PROGRAM

2013 CHAPTER IN BOOK MAIN AUTHOR

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

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

2012 PROCEEDING NON-INDEX MAIN AUTHOR

23. BASIC OF CHROMATOGRAPHY AND ITS SAMPLE PREPARARTION

MODUL FOR KTP FLAGSHIP

2012 CHAPTER IN BOOK MAIN AUTHOR

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

WORLD APPLIED SCIENCE AND TECHNOLOGY JOURNAL

2011 JOURNAL WOS MAIN AUTHOR

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

JOURNAL OF BIOTECHNOLOGY & BIOMATERIALS

2011 JOURNAL WOS MAIN AUTHOR

26. 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

27. 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

28. 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

29. 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

PUBLICATION

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

22ND PACIFIC SCIENCE CONGRESS, KLCC, MALAYSIA

2011 PROCEEDING NON-INDEX MAIN AUTHOR

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

JOURNAL OF OLEO SCIENCE

2010 JOURNAL WOS MAIN AUTHOR

32. 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

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

JOURNAL OF ENVIRONMENTAL SCIENCE AND ENGINEERING

2010 JOURNAL WOS MAIN AUTHOR

34. 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

35. 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

36. 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

37. ANTIMICROBIAL ACTIVITY OF NEWLY SYNTHESIZED FLAVOR ESTER

SEMINAR KEBANGSAAN APLIKASI SAINS DAN MATEMATIK 2010 (SKASM 2010)

2010 PROCEEDING NON-INDEX MAIN AUTHOR

38. 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

39. 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

PUBLICATION

40. 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

41. 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

CONSULTATION

1. FULL PAPER REVIEWER FOR THE KOLOKIUM 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

AWARDS/RECOGNITION

1. ANUGERAH PROSIDING 2024

2025 UNIVERSITY

2. GREEN ENZYMATIC SYNTHESIS AND OPTIMIZATION OF TRICAPRIN (MEDIUM-CHAIN TRIGLYCERIDE) FOR ANTIMICROBIAL AND FUNCTIONAL APPLICATIONS: AN ISLAMIC SCIENCE PERSPECTIVE

INNOVATION BANK CHALLENGE 2025

2025 ANTARABANGSA SILVER

3. FROM AGRO-WASTE TO BIOETHANOL: GREEN TECHNOLOGY FOR TAYYIB SUSTAINABILITY

INNOVATION BANK CHALLENGE 2025

2025 ANTARABANGSA BRONZE

AWARDS/RECOGNITION

4. TOYYIBAN GREEN CHEMISTRY: ENZYMATIC SYNTHESIS AND ANTIMICROBIAL POTENTIAL OF CETYL PALMITATE FOR COSMETICS

INNOVATION BANK CHALLENGE 2025

2025 ANTARABANGSA BRONZE

5. ANUGERAH PENERBITAN PROSIDING BERINDEKS WOS/SCOPUS (KLUSTER PENERBITAN)

2024 UNIVERSITY