



**PROF. MADYA DR. SALINA
BINTI MAT RADZI**

PENSYARAH UNIVERSITI DS14

CONTACT

Phone: 6526

E-mail: salina@usim.edu.my

Address: Fakulti Sains Dan
Teknologi

SUPERVISION

PhD - Completed: 0, Ongoing: 1

Master - Completed: 11, Ongoing:
0

AREAS OF EXPERTISE

Bioorganic Chemistry

BIOGRAPHY

A lecturer from Fakulti Sains Dan Teknologi. Holds a Phd in Kimia Sintesis.

ACADEMIC QUALIFICATION

Phd in Kimia Sintesis (2006)

Bachelor in Kimia Industri (2001)

RESEARCH

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

2022 ON GOING MAIN RESEARCHER

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

2016 COMPLETED MAIN RESEARCHER

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

2012 COMPLETED MAIN RESEARCHER

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

2012 COMPLETED MAIN RESEARCHER

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

2011 COMPLETED MAIN RESEARCHER

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

2008 COMPLETED MAIN RESEARCHER

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

2007 COMPLETED MAIN RESEARCHER

PUBLICATION

1. PRELIMINARY STUDY ON THE USE OF MAGNETIZE Fe_3O_4 - ZrO_2 CATALYST FOR BIODIESEL PRODUCTION

2023 PROCEEDING

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

2022 JOURNAL

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

2022 PROCEEDING

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

2021 PROCEEDING

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

2021 PROCEEDING

6. SYNTHESIS AND ANTIMICROBIAL STUDY OF KOJIC ACID MONOOLEATE

2021 PROCEEDING

7. EVALUATION OF CONSORTIUM ENZYME TOWARDS KOJIC ACID SYNTHESIS

2020 JOURNAL

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

2020 PROCEEDING

9. EVALUATION ON CONSORTIUM ENZYME TOWARDS KOJIC ACID SYNTHESIS

2019 PROCEEDING

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

2017 JOURNAL

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

2016 JOURNAL

12. ANTIBACTERIAL STUDY OF OLIVE-BASED FERULATE ESTERS

2015 JOURNAL

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

2015 JOURNAL

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

2015 JOURNAL

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

2015 JOURNAL

16. OPTIMIZATION OF OLEYL ESTER USING STATISTICAL APPROACH OF RESPONSE SURFACE METHODOLOGY

2015 PROCEEDING

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

2014 JOURNAL

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

2014 JOURNAL

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

2013 PROCEEDING

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

2013 PROCEEDING

21. BASICS OF CHROMATOGRAPHY TECHNIQUE AND ITS SAMPLE PREPARATION

2013 CHAPTER IN BOOK

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

2012 PROCEEDING

23. BASIC OF CHROMATOGRAPHY AND ITS SAMPLE PREPARATION

2012 CHAPTER IN BOOK

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

2011 JOURNAL

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

2011 JOURNAL

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

2011 JOURNAL

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

2011 PROCEEDING

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

2011 PROCEEDING

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

2011 PROCEEDING

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

2011 PROCEEDING

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

2010 JOURNAL

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

2010 JOURNAL

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

2010 JOURNAL

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

2010 PROCEEDING

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

2010 PROCEEDING

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

2010 PROCEEDING

37. ANTIMICROBIAL ACTIVITY OF NEWLY SYNTHESIZED FLAVOR ESTER

2010 PROCEEDING

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

2010 CHAPTER IN BOOK

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

2009 PROCEEDING

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

2009 PROCEEDING

41. STUDY OF ENZYMATIC SYNTHESIS OF BUTYL ACETATE USING IMMOBILIZED LIPASE FROM RHIZOMUCOR MIEHEI?

2009 PROCEEDING

CONSULTATION/ADULATION

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

2018 UNIVERSITY FST

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

2025 Antarabangsa Silver

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

2025 Antarabangsa Bronze

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

2025 Antarabangsa Bronze

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

2024 UNIVERSITY