



DR. MADIHAH BINTI MAT IDRIS

PENSYARAH UNIVERSITI DS13

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madihahidris@usim.edu.my

Faculty: Fakulti
Kejuruteraan Dan Alam
Bina

SUPERVISION

PhD - Completed: 0, Ongoing: 1

Master - Completed: 0,
Ongoing: 1

AREAS OF EXPERTISE

Other Architecture

Building Design

Therapeutic Garden

Green Technology/low Carbon Technology

Virtual Reality

Built Environment

ACADEMIC QUALIFICATION

PhD in Doctor Of Philosophy In Architecture (2020)

Master in Master Of Architecture (2014)

Bachelor in Bachelor Of Science (architectural Studies)
(2010)

Sijil Matrikulasi in Architecture And Environmental Design
(2007)

RESEARCH

1. FORMULATING A SHARIAH-COMPLIANT ISLAMIC ENERGY GARDEN (IEG) FRAMEWORK FOR SUSTAINABLE CAMPUS LIVING IN MALAYSIA

2024 GERAN KPT ON GOING MAIN RESEARCHER

2. FORMULATING THE ISLAMIC ENERGY GARDEN (IEG) FRAMEWORK FOR SUSTAINABLE LIVING IN MALAYSIAN CAMPUSES BASED ON MAQASID SHARIAH.

2024 GERAN PENYELIDIKAN USIM ON GOING MAIN RESEARCHER

3. SOLAR GREEN FACADE AND IOT - BASED SYSTEM FOR INDOOR AIR QUALITY TOWARDS A SUSTAINABLE LIFE OF 'SAKINAH'

2021 GERAN PENYELIDIKAN FLAGSHIP ON GOING CO-RESEARCHER

PUBLICATION

1. THE ISLAMIC ENERGY GARDEN (IEG) FRAMEWORK FOR SUSTAINABLE LIVING IN MALYSIAN UNIVERSITY CAMPUSES BASED ON MAQASID SHARIAH

INTERNATIONAL JOURNAL OF ISLAMIC THOUGHT (IJIT)

2025 JOURNAL OTHER DATABASE MAIN AUTHOR

2. ISLAMIC ENERGY GARDEN: A SHARIAH-BASED APPROACH TO ACHIEVE A ?GREEN AND BARAKAH CAMPUS?

ENVIRONMENT-BEHAVIOUR PROCEEDINGS JOURNAL

2025 JOURNAL OTHER DATABASE MAIN AUTHOR

3. EXPLORING THE ROLE OF INTELLIGENT FACADES IN ENHANCING ENERGY EFFICIENCY IN EDUCATIONAL BUILDINGS: A SCOPING REVIEW

SEMARAK PROCEEDINGS OF APPLIED SCIENCES AND ENGINEERING TECHNOLOGY (SPASET)

2025 JOURNAL OTHER DATABASE CO-AUTHOR

4. EDUCATIONAL ENGAGEMENT THROUGH AR AND VR: A REVIEW WITH APPLICATION TO SHARIAH-COMPLIANT SUSTAINABLE GARDEN CONCEPTS

THE INTERNATIONAL CONFERENCE ON QURAN AS THE FOUNDATION OF CIVILIZATION (SWATX 2025)

2025 PROCEEDING NON-INDEX MAIN AUTHOR

5. EVALUATING SENSORY DESIGN ON AUTISTICS? LEARNING EXPERIENCES: A PILOT STUDY IN MALYSIAN CAMPUSES

INTERNATIONAL SEMINAR ON ISLAM AND SCIENCE (SAIS 2025)

2025 PROCEEDING OTHER DATABASE MAIN AUTHOR

6. KRONOLOGI PEMBENTUKAN LORONG-LORONG PUSAT BANDAR KUALA LUMPUR MENGIKUT LEMBARAN SEJARAH

SENI BINA & ALAM BINA: DIMENSI KEINSANAN DAN KEROHANIAN

2025 CHAPTER IN BOOK CO-AUTHOR

7. LORONG TANPA NAMA: IDENTITI DAN RASA KEMILIKAN TEMPAT

SENI BINA & ALAM BINA: DIMENSI KEINSANAN DAN KEROHANIAN

2025 CHAPTER IN BOOK CO-AUTHOR

8. REJUVENASI LORONG SEBAGAI RUANG 'POKET BANDAR' DI PUSAT BANDAR KUALA LUMPUR

SENI BINA & ALAM BINA: DIMENSI KEINSANAN DAN KEROHANIAN

2025 CHAPTER IN BOOK CO-AUTHOR

9. ELEMEN PRIVASI DAN VISUAL DALAM REKABENTUK PERUMAHAN TERES DI MALAYSIA DARI PERSPEKTIF ISLAM

SENI BINA DAN ALAMBINA, DIMENSI KEINSANAN DAN KEROHANIAN

2025 CHAPTER IN BOOK CO-AUTHOR

10. EXPLORING IOT-BASED BIOFILTRATION GREEN PANELS (IBGP) FOR IMPROVING INDOOR AIR QUALITY (IAQ)

3RD INTERNATIONAL CONFERENCE ON BUILT ENVIRONMENT AND ENGINEERING (ICONBEE2024)

2024 PROCEEDING MYCITE MAIN AUTHOR

11. EXPLORING THE ROLE OF INTELLIGENT FACADES IN ENHANCING ENERGY EFFICIENCY IN EDUCATIONAL BUILDINGS: A SCOPING REVIEW

POSTGRADUATE AND INDUSTRY RESEARCH COLLOQUIUM (PIRC) 2024

2024 PROCEEDING NON-INDEX CO-AUTHOR

12. ENHANCING SOCIAL INTEGRATION AND SPIRITUAL WELLNESS THROUGH ISLAMIC COURTYARD GARDEN (ICG)

7TH INTERNATIONAL SEMINAR ON PHILOSOPHY, CIVILISATIONS, ETHICS, AND ISLAMIC TURATH (I-STET) 2024

2024 PROCEEDING NON-INDEX MAIN AUTHOR

13. A CASE STUDY OF IOT-BASED BIOFILTRATION GREEN PANEL (IBGP) FOR IMPROVING INDOOR AIR QUALITY

SEMINAR ANTARABANGSA ISLAM DAN SAINS (SAIS) 2024

2024 PROCEEDING NON-INDEX MAIN AUTHOR

PUBLICATION

14. DRIVERS AND BARRIERS TO THE ADAPTIVE REUSE OF COLONIAL BUILDINGS IN KUALA LUMPUR

4TH INTERNATIONAL CONFERENCE ON BUILT ENVIRONMENT AND ENGINEERING (ICONBEE 2024)

2024 PROCEEDING NON-INDEX MAIN AUTHOR

15. A PATIENT-CENTERED HOSPITAL IN MALAYSIA IN ACCORDANCE WITH MAQASID SYARIAH PRINCIPLES: A COMPREHENSIVE REVIEW AND PROSPECTIVE RESEARCH DIRECTIONS

INTERNATIONAL JOURNAL OF ISLAMIC THOUGHT

2023 JOURNAL WOS CO-AUTHOR

16. EXPLORING THE IMPACT OF EDUCATIONAL COURTYARD GARDENS (ECG) ON STUDENTS' WELL-BEING

2ND INTERNATIONAL ARCHITECTURE POSTGRADUATE CONFERENCE

2023 PROCEEDING MYCITE CO-AUTHOR

17. POLISI HALATUJU PENDIDIKAN SENIBINA NEGARA 2030

2023 POLICY

18. THE ARCHITECTS' AND LANDSCAPE ARCHITECTS' VIEWS ON THE DESIGN AND PLANNING OF THE HOSPITAL COURTYARD GARDENS (HCG) IN MALAYSIA

PLANNING MALAYSIA

2022 JOURNAL SCOPUS MAIN AUTHOR / CONTACT PERSON IN USIM

19. FACTORS INFLUENCING THE VISIT TO THE COURTYARD GARDENS IN PUBLIC HOSPITALS IN MALAYSIA

ASIAN JOURNAL OF ENVIRONMENT-BEHAVIOUR STUDIES (AJE-B5)

2022 JOURNAL ERA MAIN AUTHOR

20. STRATEGIES IN IMPROVING THE BUILDING EFFICIENCY AND DAYLIGHTING: A CASE STUDY OF GREEN BUILDING

PLANNING MALAYSIA: JOURNAL OF THE MALAYSIAN INSTITUTE OF PLANNERS

2022 JOURNAL OTHER DATABASE CO-AUTHOR

21. RESILIENT LIVING BY OPTIMIZING THE BUILDING FACADE IN DESIGNING POST-COVID HOUSING

PLANNING MALAYSIA JOURNAL

2022 JOURNAL OTHER DATABASE MAIN AUTHOR

22. THE ARCHITECTS AND LANDSCAPE ARCHITECTS'S VIEWS ON THE DESIGN AND PLANNING OF THE HOSPITAL COURTYARD GARDENS (HCG) IN MALAYSIA

CONFERENCE OF SCIENCE, BUILT ENVIRONMENT AND ENGINEERING (COSBEE2022)

2022 PROCEEDING NON-INDEX MAIN AUTHOR

23. STRATEGIES IN IMPROVING THE BUILDING EFFICIENCY AND DAYLIGHTING : A CASE STUDY OF GREEN BUILDING

CONFERENCE OF SCIENCE, BUILT ENVIRONMENT AND ENGINEERING (COSBEE2022)

2022 PROCEEDING SCOPUS CO-AUTHOR

24. RESILIENT LIVING BY OPTIMIZING THE BUILDING FACADE IN DESIGNING POST-COVID HOUSING

CONFERENCE OF SCIENCE, BUILT ENVIRONMENT AND ENGINEERING (COSBEE2022)

2022 PROCEEDING NON-INDEX CO-AUTHOR

25. THE CHANGING ROLES AND FUNCTIONS OF COURTYARD HOSPITALS FROM THE MEDIEVAL TO CONTEMPORARY TIME

EMPOWERING THE BUILT ENVIRONMENT-A MULTIDISCIPLINARY APPROACH

2022 CHAPTER IN BOOK MAIN AUTHOR

26. FACTORS AFFECTING THE VISITATION AND NON-VISITATION TO THE COURTYARD GARDENS: EVALUATION AT THREE MALAYSIAN PUBLIC HOSPITALS

5TH ABRA INTERNATIONAL CONFERENCE ON QUALITY OF LIFE

2021 PROCEEDING NON-INDEX MAIN AUTHOR

PUBLICATION

27. A PILOT STUDY ON THE INTEGRATION OF ISLAMIC BUILDING PRINCIPLES IN THE DESIGN OF STUDENT-CENTERED CAMPUS BUILDING

SEMINAR ANTARABANGSA ISLAM DAN SAINS 2021

2021 PROCEEDING NON-INDEX CO-AUTHOR

28. WHAT ARE USERS? PERCEPTIONS OF THE HOSPITAL COURTYARD GARDEN AND HOW SATISFIED ARE THEY WITH IT?

ASIAN JOURNAL OF ENVIRONMENT-BEHAVIOUR STUDIES (AJE-BS)

2019 JOURNAL ERA MAIN AUTHOR

29. INVESTIGATING SPACE USE PATTERNS IN A MALAYSIAN HOSPITAL COURTYARD GARDEN: LESSONS FROM REAL-TIME OBSERVATION OF PATIENTS, STAFF AND VISITORS

8TH ASIA-PACIFIC INTERNATIONAL CONFERENCE ON ENVIRONMENT-BEHAVIOUR STUDIES

2018 PROCEEDING NON-INDEX MAIN AUTHOR

30. USERS? PERCEPTIONS, EXPERIENCES AND LEVEL OF SATISFACTION WITH THE QUALITY OF A COURTYARD GARDEN IN A MALAYSIAN PUBLIC HOSPITAL

4TH ABRA INTERNATIONAL CONFERENCE ON QUALITY OF LIFE

2018 PROCEEDING NON-INDEX MAIN AUTHOR

31. SIGNATURE

2008 BOOK CO-EDITOR

CONSULTATION

1. PERKHIDMATAN KONSULTANSI MEMBANGUNKAN PROGRAM SARJANA MUDA SENIBINA DENGAN KEPUJIAN KOLEJ UNIVERSITI YAYASAN SABAH (UCSF)

KOLEJ UNIVERSITI YAYASAN SABAH (UCSF)

2024

NATIONAL

2. Pelantikan sebagai Perunding Projek Perkhidmatan Konsultansi Bagi Membangunkan Progra, Sarjana Muda Sains SeniBina Dengan Kepujian Kolej Universiti Yayasan Sabah (KUYS) (University College Sabah Foundation (UCSF))

Kolej Universiti Yayasan Sabah (KUYS)

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National

AWARDS/RECOGNITION

1. BEST PAPER AWARD (TOP 9): 13TH AMER INTERNATIONAL CONFERENCE ON QUALITY OF LIFE (AICQOL2025PANGKOR)

2025 INTERNATIONAL

2. ANUGERAH MYTRAMS TERBAIK FKAB 2024 (STAF AKADEMIK) - 198 MATA CPD

2025 UNIVERSITY

3. ANUGERAH PENCAPAIAN LAPORAN NILAIAN PRESTASI (LNPT) TAHUN 2024 MELEBIHI 95% - (98%)

2025 UNIVERSITY

4. STAF CONTOH BULAN SEPT 2025 - FAKULTI KEJURUTERAAN DAN ALAM BINA

2025 UNIVERSITY

5. CONFERENCE PAPER REVIEWER

FACULTY OF ENGINEERING AND BUILT ENVIRONMENT

2025 INTERNATIONAL

6. CONFERENCE PAPER REVIEWER

FACULTY OF ENGINEERING AND BUILT ENVIRONMENT

2025 INTERNATIONAL

7. ARTISTRY HUB: A SELF-LEARNING MOBILE PLATFORM FOR ON-THE-GO SKETCHING, DRAWING AND PAINTING

INNOVATION BANK CHALLENGE 2025

2025 ANTARABANGSA GOLD

8. EDUGARDENXR: AN AR/VR-BASED ISLAMIC ENERGY GARDEN FOR SHARIAH-COMPLIANT SUSTAINABLE LEARNING

INNOVATION BANK CHALLENGE 2025

2025 ANTARABANGSA GOLD

9. ECOFREEZE

INNOVATION BANK CHALLENGE 2025

2025 ANTARABANGSA GOLD

10. MODSOLARIS: SMART ECO-OASIS MODULES FOR RESILIENT COMMUNITY LIVING

INNOVATION BANK CHALLENGE 2025

2025 ANTARABANGSA GOLD

11. ECOFREEZE

INNOVATION BANK CHALLENGE 2025

2025 ANTARABANGSA GOLD

12. ANUGERAH PENYELIDIKAN TERBAIK - SOLAR GREEN FACADE AND IOT-BASED SYSTEM FOR INDOOR AIR QUALITY

2024 UNIVERSITY

13. GOLD AWARD: E-CONTENT FOR INNOVATION IN BUILT ENVIRONMENT & ENGINEERING (E-CONIBEE) - UNDERGRADUATE CATEGORY

2024 INTERNATIONAL

14. SILVER AWARD - E-CONTENT FOR INNOVATION IN BUILT ENVIRONMENT & ENGINEERING (E-CONIBEE) - UNDERGRADUATE CATEGORY

2024 INTERNATIONAL

AWARDS/RECOGNITION

15. GOLD AWARD - PERTANDINGAN INOVASI FKP 2024. ARTISTRY HUB: MOBILE APPS TO ENHANCE LEARNING EXPERIENCE IN SKETCHING, DRAWING AND PAINTING

2024 NATIONAL

16. SILVER AWARD - VIRTUAL INNOVATION COMPETITION EXHIBITION (VICE 2024) : ARTISTRY HUB: MOBILE APPS TO ENHANCE LEARNING EXPERIENCE IN GRAPHIC AND MULTIMEDIA PRESENTATION

2024 NATIONAL

17. GOLD AWARD - PERTANDINGAN INOVASI FKP : HERITAGE 360

2024 NATIONAL

18. GOLD AWARD: INTERNATIONAL INNOVATION AND INVENTION COMPETITION THROUGH EXHIBITION (ICOMPEX 2024) - INDOOR COMFORT ENVIRONMENT ICE BOX

2024 INTERNATIONAL

19. DRIVERS AND BARRIERS TO THE ADAPTIVE REUSE OF COLONIAL BUILDINGS IN KUALA LUMPUR

4TH INTERNATIONAL CONFERENCE ON BUILT ENVIRONMENT AND ENGINEERING 2024 (ICONBEE 2024)

2024 ANTARABANGSA SILVER

20. ARTISTRY HUB: MOBILE APPS TO ENHANCE LEARNING EXPERIENCE IN SKETCHING, DRAWING AND PAINTING

Pertandingan Inovasi FKP 2024

2024 UNIVERSITI GOLD

21. HERITAGE 360

Pertandingan Inovasi FKP 2024

2024 UNIVERSITI GOLD

22. ARTISTRY HUB: MOBILE APPS TO ENHANCE LEARNING EXPERIENCE IN GRAPHIC AND MULTIMEDIA PRESENTATION

Pertandingan Inovasi FKP 2024

2024 UNIVERSITI GOLD

23. ARTISTRY HUB: A MOBILE APP TO ENHANCE LEARNING EXPERIENCE IN SKETCHING, DRAWING AND PAINTING

VIRTUAL INNOVATION COMPETITION EXHIBITION 2024 (VICE 2204)

2024 KEBANGSAAN SILVER

24. ARTISTRY HUB: A MOBILE APP TO ENHANCE LEARNING EXPERIENCE IN SKETCHING, DRAWING AND PAINTING

VIRTUAL INNOVATION COMPETITION 2024

2024 ANTARABANGSA SILVER

25. ENHANCING SOCIAL INTEGRATION AND SPIRITUAL WELLNESS THROUGH ISLAMIC COURTYARD GARDEN (ICG)

SEMINAR ON PHILOSOPHY, CIVILISATION, ETHICS AND ISLAMIC HERITAGE 2024 (i-STET 2024)

2024 KEBANGSAAN CERTIFICATE OF APPRECIATION

26. A CASE STUDY OF IOT- BASED BIOFILTRATION GREEN PANEL FOR IMPROVING GREEN INDOOR AIR QUALITY

SAIS 24 (7th International Seminar on Islam and Science)

2024 ANTARABANGSA CERTIFICATE OF APPRECIATION

27. EXPLORING IOT BASED BIOFILTRATION GREEN PANEL FOR IMPROVING IMDDOR AIR QUALITY

4TH INTERNATIONAL CONFERENCE ON BUILT ENVIRONMENT AND ENGINEERING 2024 (ICONBEE 2024)

2024 ANTARABANGSA GOLD

28. ICE BOX

ICOMPEX 2024- international innovation and invention through exhibition 2024

2024

ANTARABANGSA

GOLD

AWARDS/RECOGNITION

29. INDOOR COMFORT ENVIRONMENT ICE BOX

ICOMPEX 2024- international innovation and invention through exhibition 2024

2024 ANTARABANGSA CERTIFICATE OF APPRECIATION

30. INDOOR COMFORT ENVIRONMENT ICE BOX (BEST INNOVATION AWARD)

ICOMPEX 2024- international innovation and invention through exhibition 2024

2024 ANTARABANGSA

31. FINALIST - INTERNATIONAL STUDENT COMPETITION IN ARCHITECTURAL DESIGN AND CONSTRUCTION OF BAMBOO SWING GAME

2023 INTERNATIONAL

32. STAFF CONTOH BULANAN FAKULTI KEJURUTERAAN DAN ALAM BINA - OCTOBER 2023

2023 UNIVERSITY

33. ICE BOX (INDOOR, COMFORT, ENVIRONMENT)

34th INTERNATIONAL INVENTION & TECHNOLOGY EXHIBITION MALAYSIA (ITEX2023)

2023 ANTARABANGSA GOLD

34. ACADEMIC ADVISOR

FACULTY OF ENGINEERING AND BUILT ENVIRONMENT

2022 OTHERS

35. ACADEMIC ADVISOR

FACULTY OF ENGINEERING AND BUILT ENVIRONMENT

2022 UNIVERSITY

36. JURIES CHOICE: ALCOM MINI COMPETITION - I AM A FUN BUILDING ARTWORK - PASWEE2021 (ADVISOR)

2021 NATIONAL

37. BEST PAPER AWARD: TOP 9 - 5TH ABRA INTERNATIONAL CONFERENCE ON QUALITY OF LIFE

2021 INTERNATIONAL

38. FINALIST - NANSHA BAMBOO ART SPACE INSPIRED BY TRADITIONAL ART AND CRAFT 2021 (SUPERVISOR)

2021 INTERNATIONAL

39. 3RD PRIZE - PASWEE COMPETITION 2021: 3D ANIMATION (SUPERVISOR)

2021 NATIONAL

40. 2ND PRIZE- PASWEE COMPETITION 2021 : 3D KILLER DRAWING (SUPERVISOR)

2021 NATIONAL

41. ABOVE 500 VOTES: ALCOM MINI COMPETITION - I AM A FUN BUILDING ARTWORK - PASWEE2021 (ADVISOR)

2021 NATIONAL

42. THE VIRTUAL EXHIBITION COMPETITION

2021 BAMBOO COMPETITION INSPIRED BY TRADITION

2021 KEBANGSAAN GOLD

AWARDS/RECOGNITION

43. BEST PAPER AWARD - 1ST RUNNER UP - 4TH ABRA INTERNATIONAL CONFERENCE OF QUALITY OF LIFE

2018

INTERNATIONAL

44. BEST PAPER AWARD: 2ND RUNNERS UP - 8TH ASIA PACIFIC INTERNATIONAL CONFERENCE ON ENVIRONMENT-BEHAVIOUR STUDIES

2018

INTERNATIONAL

45. FACULTY POSTGRADUATE AWARD

2013

UNIVERSITY

46. UAC ARCHITECTURE STUDENT DESIGN AWARD

2010

UNIVERSITY