



## AR. FADLI BIN ARABI

PENSYARAH UNIVERSITI DS13

### CONTACT

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**E-mail:**  
fadli@usim.edu.my

**Faculty:** Fakulti  
Kejuruteraan Dan Alam  
Bina

### SUPERVISION

PhD - Completed: 0, Ongoing: 3

Master - Completed: 1,  
Ongoing: 0

## AREAS OF EXPERTISE

Sustainable And Green Architecture (including Building And Energy Performance, Green Building, Building Integration Of Renewable Energy Sources, Environmental Behaviour, Environmental Narrative, Social And Cultural Sustainability, Climate Change And Resil

Architectural Influences (including Vernacular Architecture, Islamic Architecture And Malaysian Architecture)

Democratic, Participatory Design And Activist Architecture

## ACADEMIC QUALIFICATION

Master in Master Of Architecture (2019)

Bachelor in Senibina (1999)

## RESEARCH

### 1. PRINCIPLE FOR FORMING A SUSTAINABLE ARCHITECTURAL SYSTEM OF ROADSIDE INFRASTRUCTURE FOR THE GREEN HIGHWAY OF UZBEKISTAN

2026 GERAN ANTARABANGSA ON GOING CO-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 CO-RESEARCHER

### 3. USIM-UMS ECO-NAQLI HOME

2023 GERAN SEPADAN AGENSI KERAJAAN ON GOING CO-RESEARCHER

### 4. 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

**5. BIOCLIMATIC ARCHITECTURE AND INTEGRATED HYBRID  
SOLAR COOLING SYSTEM FOR ENGAGING RESILIENT  
COMMUNITY TO CLIMATE CHANGE**

2019

GERAN PENYELIDIKAN USIM

COMPLETED

CO-RESEARCHER

# RESEARCH

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## 6. RECYCLING @ U USIM

2017 GERAN PENYELIDIKAN INDUSTRI COMPLETED MAIN RESEARCHER

## 7. MIZAN SOLAR HOME MODEL FOR SUSTAINABLE LIVELIHOOD

2017 GERAN PENYELIDIKAN KHAS COMPLETED MAIN RESEARCHER

## 8. DEVELOPING ENERGY EFFICIENCY OFFICE BUILDING IN UNIVERSITI SAINS ISLAM MALAYSIA THROUGH INTERGRATION OF ACTIVE STRATEGIES AND DAYLIGHTING

2015 GERAN PENYELIDIKAN JANGKA PENDEK COMPLETED MAIN RESEARCHER

## 9. PRINCIPLES OF ISLAMIC DWELLING IN MALAYSIA-A COMPILATION OF DATA

2015 GERAN PENYELIDIKAN JANGKA PENDEK COMPLETED CO-RESEARCHER

## 10. DEVELOPING FOR PILOT PROJECT ON POTENTIAL OF RENEWABLE ENERGY IN UNIVERSITI SAINS ISLAM MALAYSIA

2015 GERAN PENYELIDIKAN JANGKA PENDEK COMPLETED CO-RESEARCHER

## 11. DAYLIGHT FACTOR INDICATOR FOR DISCOMFORT METRICS IN LEARNING SPACE BASED ON ACCEPTABLE DAYLIGHT ILLUMINANCE.

2015 GERAN KPT COMPLETED CO-RESEARCHER

# PUBLICATION

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

ENVIRONMENT-BEHAVIOUR PROCEEDINGS JOURNAL

2025 JOURNAL OTHER DATABASE MAIN AUTHOR

## 2. OPTIMIZATION OF SOLAR DECATHLON DESIGN FOR RURAL COMMUNITY: CASE STUDY IN LOMPIOS VILLAGE, KOTA BELUD, SABAH

JOURNAL OF ADVANCED RESEARCH IN FLUID MECHANICS AND THERMAL SCIENCES

2025 JOURNAL SCOPUS MAIN AUTHOR

## 3. REVOLUTIONIZING FACILITIES: A REVIEW OF SUSTAINABLE BUILDING OPERATION AND MAINTENANCE INNOVATIONS IN TERTIARY INSTITUTIONS

INTERNATIONAL JOURNAL OF MODERN EDUCATION (IJMOE)

2025 JOURNAL SCOPUS CO-AUTHOR

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

SENIBINA DAN ALAMBINA, DIMENSI KEINSANAN DAN KEROHANIAN

2025 CHAPTER IN BOOK CO-AUTHOR

## 5. CHAPTER 5 : BUILDING MATERIAL AND CONSTRUCTION AND DETAILS

ISLAMIC ARCHITECTURE AND FINE ART: BARAK KHAN MADRASAH IN UZBEKISTAN

2024 CHAPTER IN BOOK MAIN AUTHOR

## 6. CHAPTER 12 : BERMULANYA SATU PERJUANGAN

MEMOIR MIZAN HOME DUBAI SOLAR DECATHLON MIDDLE EAST 2018

2024 CHAPTER IN BOOK EDITOR

## 7. CHAPTER 13 : MIZANHOME KITA BERSATU

MEMOIR MIZAN HOME DUBAI SOLAR DECATHLON MIDDLE EAST 2018

2024 CHAPTER IN BOOK EDITOR

## 8. INFOGRAFIK HALATUJU PENDIDIKAN SENIBINA NEGARA

2023 BOOK CO-AUTHOR

## 9. HALATUJU PENDIDIKAN SENIBINA NEGARA 2030

2023 POLICY

## 10. 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

## 11. RESILIENT LIVING BY OPTIMIZING THE BUILDING FAÇADE IN DESIGNING POST-COVID HOUSING

PLANNING MALAYSIA JOURNAL

2022 JOURNAL OTHER DATABASE MAIN AUTHOR

## 12. ARCHITECTURAL EXPERIMENTAL FIELD MEASUREMENT PROCESS AND PROCEDURE USING CASE STUDY

SOLID STATE TECHNOLOGY

2021 JOURNAL SCOPUS CO-AUTHOR

## 13. DAYLIGHT EFFICIENCY AND ENERGY SAVING LIGHTING TO MAXIMIZE STUDENTS? ?HAFAZAN? PERFORMANCE AND VISUAL COMFORT: A CASE RESEARCH OF A SELECTED RELIGIOUS SCHOOL

PROCEEDINGS THE 7TH INTERNATIONAL CONFERENCE ON QURAN AS FOUNDATION OF CIVILIZATION (SWAT) 2021

2021 PROCEEDING NON-INDEX CO-AUTHOR

# PUBLICATION

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## 14. JOURNAL OF URBAN SKETCHES: THE HERITAGE STREETS OF MELAKA, MALAYSIA.

2021 BOOK EDITOR

## 15. MEASURING THE AWARENESS OF ARCHITECTURE STUDENTS ON THE USE OF BAMBOO FOR THE MAIN ELEMENTS OF A BUILDING

JOURNAL OF BUILT ENVIRONMENT, TECHNOLOGY AND ENGINEERING

2019 JOURNAL OTHER DATABASE CO-AUTHOR

## 16. STUDENTS' DAYLIGHT CONDITION PERCEPTION IN TASMI CLASSROOM

4TH INTERNATIONAL CONFERENCE ON REBUILDING PLACE

2019 PROCEEDING NON-INDEX MAIN AUTHOR

## 17. THE EFFECTS OF DAYLIGHT FLUCTUATION AND ILLUMINANCE LEVEL IN OFFICE BUILDING

4TH INTERNATIONAL CONFERENCE ON REBUILDING PLACE

2019 PROCEEDING NON-INDEX CO-AUTHOR

## 18. CONCEPTUAL ROAD MAP FOR TURNING UNIVERSITI SAINS ISLAM MALAYSIA TO A GREEN CAMPUS

SUSTAINABLE DEVELOPMENT INITIATIVE IN USIM DIALOGUE

2019 PROCEEDING NON-INDEX CO-AUTHOR

## 19. BEAUTY OF BALANCE: FROM THE PERSPECTIVE OF BUILT ENVIRONMENT

2019 BOOK MAIN AUTHOR

## 20. HARMONIZATION, LIGHT AND ARCHITECTURE

HARMONIZATION, DECORATION OF ARCHITECTURAL FORMS AND LIGHT

2019 CHAPTER IN BOOK EDITOR

## 21. LIGHT FLUCTUATION IN RELATIONSHIP OF HUMAN SATISFACTION AND ENERGY SAVING OFFICE BUILDINGS IN MALAYSIA: A CASE STUDY ON STATE FEDERAL BUILDING, JOHOR BAHRU

ADVANCES IN SUSTAINABLE LIVING: BUILT ENVIRONMENT AND THE TECHNOLOGY

2019 CHAPTER IN BOOK CO-AUTHOR

## 22. DEVELOPMENT OF A SOLAR HOME IN MIDDLE EAST : A REVIEW.

INTERNATIONAL JOURNAL OF ADVANCES IN MECHANICAL AND CIVIL ENGINEERING

2018 JOURNAL SCI CO-AUTHOR

## 23. LIGHT, DAYLIGHTING AND FLUCTUATION OF ILLUMINANCE LEVEL IN OFFICE BUILDINGS

IOP CONFERENCE SERIES MATERIALS SCIENCE AND ENGINEERING

2018 JOURNAL SCOPUS CO-AUTHOR

## 24. MIZANHOME FROM IDEAS TO REALITY

2018 BOOK MAIN AUTHOR

## 25. THE ESTABLISHMENT OF ISLAMIC DWELLING PRINCIPLES FOR THE MALAYSIAN COMMUNITIES

JOURNAL OF THE MALAYSIAN INSTITUTE OF PLANNERS

2017 JOURNAL SCOPUS CO-AUTHOR

## 26. THE POTENTIAL OF ENERGY REFURBISHMENT THROUGH THE INTEGRATION OF DAYLIGHT HARVESTING FOR OFFICE BUILDINGS IN UNIVERSITI SAINS ISLAM MALAYSIA

ADVANCED SCIENCE LETTERS

2017 JOURNAL SCOPUS MAIN AUTHOR

# PUBLICATION

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## 27. THE FUTURE SURVIVAL FOR CONSERVING AND REGENERATING A VILLAGE TOWARDS A PEACEFUL AND SUSTAINABLE LIFE

ASIA PACIFIC PEACE RESEARCH ASSOCIATION (APPRA) 2017 CONFERENCE

2017 PROCEEDING NON-INDEX MAIN AUTHOR

## 28. ACCEPTABLE ILLUMINANCE LEVEL ATTRIBUTES TO LEARNING SATISFACTION IN CLASSROOM

INTERNATIONAL CONFERENCE ON INNOVATIVE ENGINEERING TECHNOLOGIES

2017 PROCEEDING NON-INDEX MAIN AUTHOR

## 29. DEVELOPMENT OF A SOLAR HOME IN MIDDLE EAST: A REVIEW

300TH INTERNATIONAL CONFERENCE ON INNOVATIVE ENGINEERING TECHNOLOGIES (ICIET)

2017 PROCEEDING NON-INDEX CO-AUTHOR

## 30. MERINTIS KAMPUS BARAKAAH

2017 BOOK CO-AUTHOR

## 31. PEMBANGUNAN IDENTITI PENGAJIAN PONDOK PEMACU KELESTARIAN KAMPUNG

KAMPUNG REFLECTION ON BALANCE IN DEVELOPMENT

2017 CHAPTER IN BOOK MAIN AUTHOR

## 32. KESAN PENCAHAYAAN SEMULA JADI KEPADA SENI BINA DAN MANUSIA

PEMBINAAN RUMAH KEDIAMAN MENURUT PERSPEKTIF ISLAM

2017 CHAPTER IN BOOK CO-AUTHOR

## 33. THE POTENTIAL OF ENERGY REFURBISHMENT THROUGH THE INTERGRATION OF DAYLIGHT HAVERSTING FOR OFFICE BUILDINGS IN UNIVERSITI SAINS ISLAM MALAYSIA

INTERNATIONAL CONFERENCE ON ARCHITECTURE AND BUILT ENVIRONMENT 2016 (ICABE2016)

2016 PROCEEDING NON-INDEX MAIN AUTHOR

## 34. ACCEPTABLE ILLUMINANCE LEVEL ATTRIBUTES TO VISUAL COMFORT IN OFFICE BUILDINGS

2ND INTERNATIONAL CONFERENCE ON SCIENCE, ENGINEERING AND SOCIAL SCIENCE (ICSESS 2016)

2016 PROCEEDING NON-INDEX CO-AUTHOR

## 35. PENGIMBASAN LITERATUR: PERSEPSI DALAM KAJIAN REKABENTUK BANDAR

JOURNAL OF DESIGN + BUILT

2015 JOURNAL WOS CO-AUTHOR

## 36. PROJECT SHELTER: A CONCEPT OF SHELTER KIT FOR POST DISASTER VICTIMS

JOINT INTERNATIONAL SEMINAR : GREEN RELIGION, SCIENCE AND TECHNOLOGY : PROSPECT AND CHALLENGE FOR SUSTAINABLE LIVE

2015 PROCEEDING NON-INDEX MAIN AUTHOR

## 37. INTEGRATION OF DAYLIGHT AND HISHRAQ ILLUMINANCE PRINCIPLE FOR OFFICE IN MALAYSIA: A SURVEY OF OCCUPANTS SATISFACTION IN MALAYSIA

3RD FST ANNUAL COLLOQUIUM, UNIVERSITI SAINS ISLAM MALAYSIA

2015 PROCEEDING NON-INDEX CO-AUTHOR

## 38. POTENTIAL OF ENERGY SAVING IN OFFICE BUILDINGS IN MALAYSIA: A SURVEY ON PREFERRED ILLUMINATION LEVELS & OCCUPANTS SATISFACTION

THE INTERNATIONAL CONFERENCE OF SENVAR-INTA-AVAN 2015 : "WISDOM OF THE TROPICS: PAST, PRESENT & FUTURE"

2015 PROCEEDING NON-INDEX CO-AUTHOR

## 39. PENGIMBASAN LITERATUR: JALAN DAN REKABENTUKNYA DALAM KONTEKS BANDAR

JOURNAL OF DESIGN + BUILT

2014 JOURNAL OTHER DATABASE CO-AUTHOR & CO-EDITOR

# PUBLICATION

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## 40. DAYLIGHT IN OFFICE BUILDINGS IN MALAYSIA: A PILOT STUDY ON OCCUPANTS' SATISFACTION AND LUMINOUS ENVIRONMENT

SPACES AND FLOWS: AN INTERNATIONAL CONFERENCE ON URBAN AND EXTRAURBAN STUDIES

2013

JOURNAL

WOS

CO-AUTHOR

## 41. EFFECT OF NATURAL LIGHT GLARE ON PASSIVE DESIGN IN MALAYSIAN GOVERNMENT OFFICE BUILDING

AMERICAN TRANSACTIONS ON ENGINEERING & APPLIED SCIENCES

2012

JOURNAL

WOS

MAIN AUTHOR

# CONSULTATION

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## 1. PROJEK KABIN DI CAMARON HIGHLANDS DI ANTARA UNIVERSITI SAINS ISLAM MALAYSIA (USIM) DAN SYARIKAT SH AGRO HIGHLANDS SDN BHD

SYARIKAT SH AGRO HIGHLANDS SDN BHD

2022 OTHERS

## 2. PERPUSTAKAAN KPI

KOLEJ PERMATA INSAN

2018 UNIVERSITY

## 3. KING SALMAN CENTER FOR INTERNATIONAL PEACE

GOVERNMENT OF MALAYSIA

2017 INTERNATIONAL

## 4. CADANGAN ARABIC CAFE

USIM

2017 UNIVERSITY

## 5. RECYCLING CENTER AT USIM

COCA-COLA

2017 UNIVERSITY

## 6. PROJEK USIM SHELTER SHOWCASE DAN 2 BUAH RESEARCH OFFICE

UNIVERSITI SAINS ISLAM MALAYSIA

2016 UNIVERSITY

## 7. PROJECT SHELTER : BANTUAN RUMAH MANGSA BANJIR DI KELANTAN

TESCO (MALAYSIA) SDN BHD

2015 NATIONAL

## 8. Perunding Projek Perkhidmtan Konsultansi Bagi Membangunkan Program Sarjana Muda Sains Seni Bina Dengan Kepujian Kolej Universiti Yayasan Sabah Foundation (UCSF)

Kolej Universiti Yayasan Sabah Foundation (UCSF)

Others

# AWARDS/RECOGNITION

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## 1. MODSOLARIS: MODULAR SOLAR ECO OASIS ABODE FOR CLIMATE RESILIENT COMMUNITIES

International Innovation and Invention Competition Through Exhibition 2025 (iCompEx 2025)

2025 ANTARABANGSA GOLD

## 2. MODSOLARIS: MODULAR SOLAR ECO OASIS ABODE FOR CLIMATE RESILIENT COMMUNITIES (BEST INNOVATION)

International Innovation and Invention Competition Through Exhibition 2025 (iCompEx 2025)

2025 ANTARABANGSA

## 3. MODSOLARIS: MODULAR SOLAR ECO OASIS ABODE FOR CLIMATE RESILIENT COMMUNITIES

International Innovation and Invention Competition Through Exhibition 2025 (iCompEx 2025)

2025 ANTARABANGSA PLATINUM

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

INNOVATION BANK CHALLENGE 2025

2025 ANTARABANGSA GOLD

## 5. ECOFREEZE

INNOVATION BANK CHALLENGE 2025

2025 ANTARABANGSA GOLD

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

INNOVATION BANK CHALLENGE 2025

2025 ANTARABANGSA GOLD

## 7. ECOFREEZE

INNOVATION BANK CHALLENGE 2025

2025 ANTARABANGSA GOLD

## 8. VISITING SCHOLAR

TASHKENT UNIVERSITY OF ARCHITECTURE AND CIVIL ENGINEERING (TAQU), TASHKENT, UZBEKISTAN

2024 INTERNATIONAL

## 9. VISITING SCHOLAR

JABATAN SENI BINA DAN ALAM BINA, UNIVERSITI KEBANGSAAN MALAYSIA

2024 UNIVERSITY

## 10. ICE BOX

ICOMPEX 2024- international innovation and invention through exhibition 2024

2024 ANTARABANGSA GOLD

## 11. EXEMPLARY MODELLING OF ENERGY EFFICIENCY AND ENVIRONMENTALLY SENSITIVE HABITATS: INNOVATIVE PARADIGMS TOWARDS SELF-SUSTAINING HABITAT FOR RURAL COMMUNITIES

ICOMPEX 2024- international innovation and invention through exhibition 2024

2024 ANTARABANGSA GOLD

## 12. INDOOR COMFORT ENVIRONMENT ICE BOX

ICOMPEX 2024- international innovation and invention through exhibition 2024

2024 ANTARABANGSA CERTIFICATE OF APPRECIATION

## 13. INDOOR COMFORT ENVIRONMENT ICE BOX (BEST INNOVATION AWARD)

ICOMPEX 2024- international innovation and invention through exhibition 2024

2024 ANTARABANGSA

2023

INTERNATIONAL

# AWARDS/RECOGNITION

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## 15. ICE BOX (INDOOR, COMFORT, ENVIRONMENT)

34th INTERNATIONAL INVENTION & TECHNOLOGY EXHIBITION MALAYSIA (ITEX2023)

2023 ANTARABANGSA GOLD

## 16. ANUGERAH SENI DAN BUDAYA

2022 UNIVERSITY

## 17. ACADEMIC ADVISOR

INTERNATIONAL STUDENT COMPETITION IN ARCHITECTURAL DESIGN AND CONSTRUCTION OF BAMBOO 2022 "HALF PAVILION"

2022 INTERNATIONAL

## 18. ICE BOX (INDOOR, COMFORT, ENVIRONMENT)

Persidangan dan Ekspo Ciptaan Institusi Pengajian Tinggi Antarabangsa (PECIPTA22)

2022 ANTARABANGSA GOLD

## 19. BEST THESIS AWARD FOREST RESEARCH INSTITUTE MALAYSIA (FRIM) 2021

2021 NATIONAL

## 20. ACADEMIC ADVISOR

PROGRAM PENJANA KPT-CAP ; KONTRAKTOR RUMAH (PROFESSIONAL IBS X BIM)

2021 UNIVERSITY

## 21. FINALIST SOLAR DECATHLON AFRICA 2019

2019 INTERNATIONAL

## 22. VISITING SCHOLAR

TASHKENT INSTITUTE OF ARCHITECTURE AND CIVIL ENGINEERING

2019 INTERNATIONAL

## 23. ANUGERAH PERKHIDMATAN CEMERLANG

2018 UNIVERSITY

## 24. FINALIST SOLAR DCATHLON MIDDLE EAST 2018

2018 INTERNATIONAL

## 25. TRIPLE EYE LID: EDIBLE GARDEN PASSIVE COOLING AND AIR FILTRATION SYSTEM IN SURIS

29th International invention,innovation& technology exhibition 2018 ( ITEX 2018)

2018 KEBANGSAAN GOLD

## 26. TRIPLE EYE LID: PASSIVE COOLING AND AIR FILTRATION SYSTEM FOR RESIDENTIAL

8th EXPOSITION ON ISLAMIC INNOVATION (i-INOVA) 2018

2018 UNIVERSITI SILVER

## 27. I-SOLD: A PROTOTYPE OF SOLAR COOLING INTEGRATED FACADE FOR BALANCING HUMAN COMFORT, SUSTAINABILITY IN WORKING AND LEARNING SPACE

8th EXPOSITION ON ISLAMIC INNOVATION (i-INOVA) 2018

2018 UNIVERSITI BRONZE

## 28. ANUGERAH PENSYARAH AKTIF GOALS

2017 UNIVERSITY

# AWARDS/RECOGNITION

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## 29. BRONZE MEDAL PECIPTA 2017 (USIM MIZAN HOMESTAY)

2017

NATIONAL

## 30. MIZAN SOLARHOME

27TH INTERNATIONAL INVENTION & INNOVATION EXHIBITION 2017 (ITEX 2017)

2017

ANTARABANGSA

SILVER

## 31. ACADEMIC ADVISOR

TAYLORS UNIVERSITY

2016

UNIVERSITY