

# PROF. MADYA AR. DR. ELINA BINTI MOHD HUSINI

PENSYARAH UNIVERSITI DS14

## CONTACT


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**FACULTY**
Fakulti Kejuruteraan Dan Alam Bina


## SUPERVISION

| | COMPLETED | ONGOING |
|---|---|---|
| PhD | 1 | 4 |
| Master | 2 | 1 |

## AREAS OF EXPERTISE

- Energy Efficiency
- Green Technology And Sustainable Design

## ACADEMIC QUALIFICATION

2016 **PhD** - Architecture

2002 **Bachelor** - Senibina

## RESEARCH

1. **PRINCIPLE FOR FORMING A SUSTAINABLE ARCHITECTURAL SYSTEM OF ROADSIDE INFRASTRUCTURE FOR THE GREEN HIGHWAY OF UZBEKISTAN**
   2026 | GERAN ANTARABANGSA | ON GOING | MAIN RESEARCHER

2. **SOLAR GREEN FACADE AND IOT - BASED SYSTEM FOR INDOOR AIR QUALITY TOWARDS A SUSTAINABLE LIFE OF 'SAKINAH'**
   2021 | GERAN PENYELIDIKAN FLAGSHIP | ON GOING | MAIN RESEARCHER

3. **A NEW PARAMETRIC MODULE OF THERMAL AND LIGHTING BASED ON SOLAR CELL FACADE SYSTEM IN SCHOOL**
   2020 | GERAN KPT | COMPLETED | MAIN RESEARCHER

4. **BIOCLIMATIC ARCHITECTURE AND INTEGRATED HYBRID SOLAR COOLING SYSTEM FOR ENGAGING RESILIENT COMMUNITY TO CLIMATE CHANGE**
   2019 | GERAN PENYELIDIKAN USIM | COMPLETED | MAIN RESEARCHER

5. **DAYLIGHT FACTOR INDICATOR FOR DISCOMFORT METRICS IN LEARNING SPACE BASED ON ACCEPTABLE DAYLIGHT ILLUMINANCE.**
   2015 | GERAN KPT | COMPLETED | MAIN RESEARCHER

## RESEARCH

**6. DEVELOPING FOR PILOT PROJECT ON POTENTIAL OF RENEWABLE ENERGY IN UNIVERSITI SAINS ISLAM MALAYSIA**

2015 | GERAN PENYELIDIKAN JANGKA PENDEK | COMPLETED | MAIN RESEARCHER

## PUBLICATION

**1. THE ISLAMIC ENERGY GARDEN (IEG) FRAMEWORK FOR SUSTAINABLE LIVING IN MALAYSIAN 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. 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

**4. SUSTAINABLE ARCHITECTURE APPROACH IN REVITALIZING RELIGIOUS TOURISM SITES TOWARDS ENERGY MANAGEMENT IN MAQASID SYARIAH: A GENDER PERSPECTIVE**

2025 INTERNATIONAL CONFERENCE ON SCIENCE, BUILT ENVIRONMENT AND ENGINEERING

2025 | PROCEEDING | NON-INDEX | MAIN AUTHOR

**5. GREEN WALL FACADE AND IOT-BASED SYSTEM FOR OPTIMAL INDOOR ENVIRONMENT OF SAKINAH IN LIVING**

025 INTERNATIONAL CONFERENCE ON SCIENCE, BUILT ENVIRONMENT AND ENGINEERING

2025 | PROCEEDING | OTHER DATABASE | MAIN AUTHOR

**6. PARAMETRIC OF DAYLIGHT PERFORMANCE THROUGH FACADE ENVELOPE RATIO OF HIGH-RISE OFFICE BUILDING IN TROPICAL**

INTERNATIONAL CONFERENCE ON SCIENCE, BUILT ENVIRONMENT AND ENGINEERING

2025 | PROCEEDING | OTHER DATABASE | MAIN AUTHOR

**7. TRANSFORMASI PENYELIDIKAN PELAJAR: INTEGRASI KECERDASAN BUATAN (AI) DALAM KAJIAN TOPIKAL SENI BINA**

SEMINAR ANTARABANGSA ISLAM DAN SAINS 2025 (SAIS 2025)

2025 | PROCEEDING | NON-INDEX | MAIN AUTHOR

**8. ANALYSIS ON SPATIAL QUALITY ISSUES ON B40 FAMILIES LIVING IN LOW QUALITY VERTICAL HOUSING IN MALAYSIA**

INTERNATIONAL ARCHITECTURE POSTGRADUATE CONFERENCE 2023

2025 | PROCEEDING | NON-INDEX | MAIN AUTHOR

## PUBLICATION

**9. VISUAL PRIVACY FACTORS INFLUENCING USAGE OF SPACES FOR URBAN HOUSING**

13TH ASIAN CONFERENCE ON ENVIRONMENT-BEHAVIOUR STUDIES

2025 PROCEEDING NON-INDEX MAIN AUTHOR

**10. EVALUATING SENSORY DESIGN ON AUTISTICS? LEARNING EXPERIENCES: A PILOT STUDY IN MALAYSIAN CAMPUSES**

INTERNATIONAL SEMINAR ON ISLAM AND SCIENCE (SAIS 2025)

2025 PROCEEDING OTHER DATABASE MAIN AUTHOR

**11. PENCAHAYAAN DAN HARMONI DALAM SENIBINA**

SENIBINA DAN ALAMBINA, DIMENSI KEINSANAN DAN KEROHANIAN

2025 CHAPTER IN BOOK MAIN 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. 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

**14. WATIKAH SATU AMANAH**

MEMOIR MIZAN HOME DUBAI , SOLAR DEACTHLON MIDDLE EAST 2018

2024 CHAPTER IN BOOK MAIN AUTHOR

**15. DUBAI, HERE WE COME**

MEMOIR MIZAN HOME DUBAI, SOLAR DECATHLON MIDDLE EAST 2018

2024 CHAPTER IN BOOK MAIN AUTHOR

**16. ISLAM AND THE FINE ARTS**

THE HISTORY AND REVOLUTION OF ART AND ISLAM; THE BARAK KHAN MADRASAH

2024 CHAPTER IN BOOK MAIN AUTHOR

**17. INTEGRATION OF ISLAMIC BUILDING PRINCIPLES TO IMPROVE SPATIAL QUALITY OF LOW-COST VERTICAL HOUSING IN KUALA LUMPUR**

SAIS 2023

2023 PROCEEDING NON-INDEX MAIN AUTHOR

**18. DAYLIGHT AND COLOR**

EMPOWERING THE BUILT ENVIRONMENT: A MULTIDISCIPLINARY APPROACH

2023 CHAPTER IN BOOK MAIN AUTHOR

**19. RESILLIENT LIVING BY OPTIMIZING THE BUILDING FA�ADE IN DESIGNING POST-COVID HOUSING**

PLANNING MALAYSIA JOURNAL

2022 JOURNAL OTHER DATABASE MAIN AUTHOR

## PUBLICATION

**20. AN ANALYSIS OF VISUAL PRIVACY FROM ISLAMIC PERSPECTIVE OF MODERN TERRACE HOUSING DESIGN IN MALAYSIA**

SEMINAR ANTARABANGSA SAINS DAN ISLAM 2022

2022 PROCEEDING NON-INDEX MAIN AUTHOR

**21. PERMULAAN AWAL BICARA**

MEMOIR SDME

2022 CHAPTER IN BOOK MAIN AUTHOR

**22. DAYLIGHT AND COLOUR**

EMPOWERING THE BUILT ENVIRONMENT A MULTIDISCIPLINARY APPROACH

2022 CHAPTER IN BOOK MAIN AUTHOR

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

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

2021 PROCEEDING NON-INDEX MAIN AUTHOR

**24. HYBRID THERMAL ENERGY STORAGE COOLING & HEATING SYSTEM FOR A SOLAR HOME**

SUSTAINABLE LIVING IN THE BUILT ENVIRONMENT

2021 CHAPTER IN BOOK MAIN AUTHOR

**25. ILLUMINANCE LEVEL MEASUREMENT AT LOWER WORKING PLANE HEIGHT IN ISLAMIC RELIGIOUS SCHOOL**

ASIAN JOURNAL OF UNIVERSITY EDUCATION (AJUE)

2020 JOURNAL SCOPUS MAIN AUTHOR

**26. THE EFFECT OF DAYLIGHT FLUCTUATION AND ACCEPTABLE ILLUMINANCE LEVEL ON VISUAL COMFORT IN OFFICE BUILDINGS**

ICRP 2019 4TH INTERNATIONAL CONFERENCE ON REBUILDING PLACE

2019 PROCEEDING NON-INDEX MAIN AUTHOR

**27. THE EFFECTS OF DAYLIGHT FLUCTUATION AND ILLUMINANCE LEVEL IN OFFICE BUILDING**

4 TH INTERNATIONAL CONFERENCE ON REBUILDING PLACE

2019 PROCEEDING NON-INDEX MAIN AUTHOR

**28. THE CONCEPT OF ?SAKINAH? FOR FUTURE SURVIVAL IN CONSERVING A SUSTAINABLE LIFE**

SUSTAINABLE INITIATIVE IN USIM DIALOGUE

2019 PROCEEDING NON-INDEX MAIN AUTHOR

**29. BEAUTY OF BALANCE: FROM THE PERSPECTIVE OF BUILT ENVIRONMENT**

2019 BOOK MAIN AUTHOR

**30. 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 MAIN AUTHOR

## PUBLICATION

**31. LIGHT,DAYLIGHTING AND FLUCTUATION OF AN ILLUMINANCE LEVEL IN OFFICE BUILDING**

IOP CONFERENCE SERIES : MATERIAL SC AND ENGINEERING

2018 JOURNAL SCOPUS MAIN AUTHOR

**32. DEVELOPMENT OF A SOLAR HOME IN MIDDLE EAST : A REVIEW**

MALAYSIAN JOURNAL OF SC HEALTH TECHNOLOGY

2018 JOURNAL OTHER DATABASE MAIN AUTHOR

**33. LIGHT, DAYLIGHTING AND FLUCTUATION OF ILLUMINANCE LEVEL IN OFFICE BUILDING**

ICACE 2018 2ND INTERNATIONAL CONFERENCE ON ARCHITECTURE AND CIVIL ENGINEERING

2018 PROCEEDING NON-INDEX MAIN AUTHOR

**34. A REVIEW OF SCIENCE OF LIGHT: FROM NAQLI KNOWLEDGE TO APPLICATION IN PRACTICE**

CONTEMPORARY ISSUES: ISLAM AND SCIENCE

2018 PROCEEDING NON-INDEX MAIN AUTHOR

**35. A HANDBOOK FOR MEASURED DRAWINGS DOCUMENTING WITH NAQLI STUDIES**

2018 BOOK MAIN AUTHOR

**36. MONOGRAPH MIZANHOME.. FROM CONCEPT TO REALITY**

2018 BOOK MAIN AUTHOR

**37. CONCEPTUAL IDEAS**

MIZANHOME FROM IDEAS TO REALITY

2018 CHAPTER IN BOOK MAIN AUTHOR

**38. A REVIEW OF SCIENCE OF LIGHT: FROM NAQLI KNOWLEDGE TO APPLIACATION IN PRACTICE**

CONTEMPORARY ISSUES : ISLAM ANS SCIENCE

2018 CHAPTER IN BOOK MAIN AUTHOR

**39. DEVELOPMENT OF A SOLAR HOME IN MIDDLE EAST: A REVIEW**

THE IRES- 300TH INTERNATIONAL CONFERENCE ON INNOVATIVE ENGINEERING TECHNOLOGIES

2017 PROCEEDING NON-INDEX MAIN AUTHOR

**40. THE FUTURE SURVIVAL FOR CONSERVING AND REGENERATING A VILLAGE TOWARDS A PEACEFUL AND SUSTAINABLE LIFE**

INTERNATIONAL

2017 PROCEEDING NON-INDEX MAIN AUTHOR

**41. ACCEPTABLE ILLUMINANCE LEVEL ATTRIBUTES TO VISUAL COMFORT IN OFFICE BUILDING**

2ND INTERNATIONAL CONFERENCE AND SCIENCE ENGINEERING AND SOCIAL SCIENCES

2016 PROCEEDING NON-INDEX MAIN AUTHOR

## PUBLICATION

**42. OCCUPANT&#65533;S SATISFACTION AND ENERGY SAVING IN OFFICE BUILDINGS: A CASE STUDY IN STATE FEDERAL BUILDING ,JOHOR BAHRU**

JURNAL TEKNOLOGI,

2015 JOURNAL SCOPUS MAIN AUTHOR

**43. POTENTIAL OF ENERGY SAVING IN OFFICE BUILDINGS IN MALAYSIA: A SURVEY ON PREFERRED ILLUMINATION LEVELS & OCCUPANTS&#65533;S SATISFACTION**

INTERNATIONAL JOINT CONFERENCE OF SENVAR-INTA-AVEN

2015 PROCEEDING NON-INDEX MAIN AUTHOR

**44. INTEGRATION OF DAYLIGHT AND &#65533;ISHRAQ ILLUMINANCE PRINCIPLE FOR OFFICE IN MALAYSIA: S AURVEY OF OCCUPANT&#65533;S SATISFACTION IN MALAYSIA**

3RD FST ANNUAL COLLOQIUM, USIM

2015 PROCEEDING NON-INDEX MAIN AUTHOR

**45. DAYLIGHT IN OFFICE BUiLDINGS IN MALAYSiA: A PILOT STUDY ON OCCUPANTS&#65533; SATISFACTION AND LUMINOUS ENVIRONMENT**

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

2013 JOURNAL WOS MAIN AUTHOR

**46. REMEDY THE GAP; ENERGY SAVING LIGHTING SYSTEM AND OCCUPANT PREFERENCES FOR OLD AND NEW OFFICE BUILDINGS IN MALAYSIA**

BRIDGING OLD AND NEW:KALAM

2012 PROCEEDING NON-INDEX MAIN AUTHOR

## CONSULTATION

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

KOLEJ UNIVERSITI YAYASAN SABAH (UCSF)

2024 NATIONAL

**2. PKNS OFFICE BUILDING**

PKNS AND NEAPOLI SDN BHD

2013 NATIONAL

## AWARDS/RECOGNITION

**1. ANUGERAH KHAS REKABENTUK KURIKULUM INOVATIF 2025**

2025 NATIONAL

**2. HONORARY PROFESSOR**

2025 INTERNATIONAL

## AWARDS/RECOGNITION

**3.** **BEST PAPER AWARD: TOP 9**

2025 INTERNATIONAL

**4.** **ANUGERAH STAF CONTOH APRIL 2025**

2025 OTHERS

**5.** **ANUGERAH AKADEMIK TERBAIK**

2025 UNIVERSITY