

Profile Image

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**Faculty:** Fakulti  
Kejuruteraan Dan Alam  
Bina

**SUPERVISION**

PhD - Completed: 0, Ongoing: 2

Master - Completed: 1,  
Ongoing: 1

**AREAS OF EXPERTISE**

Optical/photonic Sensor

Computational Simulation And Modelling

Semiconductor Materials And Devices Physics

**ACADEMIC QUALIFICATION**

PhD in Laser (2010)

Master in Engineering Science (2002)

Bachelor in Electronic & Electrical Engineering (1998)

# PUBLICATION

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**1. SINGLE MODE FIBER BASED SPR SENSOR FOR THE DETECTION OF AIR CONTAMINANTS**

SEMINAR ANTARABANGSA ISLAM DAN SAINS 2024

2024   PROCEEDING   OTHER DATABASE   MAIN AUTHOR

**2. SURFACE PLASMON RESONANCE BASED PCF SENSOR FOR DOM DETECTION**

2024 IEEE INTERNATIONAL CONFERENCE ON APPLIED ELECTRONICS AND ENGINEERING

2024   PROCEEDING   NON-INDEX   MAIN AUTHOR

**3. A COMSOL MULTIPHYSICS FOR POLY (VINYL-ALCOHOL) PVA HYDROGEL EFFECT ON PHOTOVOLTAIC SOLAR CELL BY USING HEAT TRANSFER MODULE**

2024 IEEE INTERNATIONAL CONFERENCE ON APPLIED ELECTRONICS AND ENGINEERING (ICAEE)

2024   PROCEEDING   SCOPUS   MAIN AUTHOR

**4. TEMPERATURE DEPENDENT GAIN AND NOISE ANALYSIS OF AN ERBIUM DOPED FIBER AMPLIFIER WITH DIFFERENT PUMPING CONFIGURATIONS**

ADVANCEMENT IN ENGINEERING AND TECHNOLOGY

2024   CHAPTER IN BOOK   MAIN AUTHOR

**5. DESIGN OF SINGLE STAGE C BAND ERBIUM DOPED FIBER AMPLIFIER (EDFA) FOR OPTICAL COMMUNICATIONS**

TECHNOLOGIES IN SCIENCE AND ENGINEERING

2023   CHAPTER IN BOOK   MAIN AUTHOR

**6. OUTCOME-BASED EDUCATION FOR ENGINEERING PROGRAMME: A CASE STUDY OF USIM**

2019   BOOK   MAIN AUTHOR

**7. PHOTOVOLTAIC TEHCHNOLOGY: A REVIEW**

ADVANCES IN SUSTAINABLE LIVING

2019   CHAPTER IN BOOK   MAIN AUTHOR

**8. IMPROVING GSM SECURITY BY ENHANCING THE RANDOMNESS PROPERTY OF THE A5/1 DESIGN**

AUSTRALIAN JOURNAL OF BASIC AND APPLIED SCIENCES

2015   JOURNAL   SCOPUS   MAIN AUTHOR

# CONSULTATION

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## 1. FASILITATOR PROGRAM "TRAINING ON CURRICULUM DEVELOPMENT", INSTITUT AGAMA ISLAM NEGERI (IAIN) WALISONGO INDONESIA

INSTITUT AGAMA ISLAM NEGERI (IAIN) INDONESIA

2013

INTERNATIONAL

# AWARDS/RECOGNITION

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## 1. ACADEMIC ADVISOR

JPT

2023

NATIONAL

## 2. ACADEMIC ADVISOR

JPT

2022

NATIONAL

## 3. ACADEMIC ADVISOR

USIM

2022

UNIVERSITY

## 4. SMART PARCEL DROP BOX

PERTANDINGAN REKACIPTA INOVASI INTERNASIONAL & NASIONAL 2022 (PRIIN 2022)

2022

ANTARABANGSA

SILVER

## 5. 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

UNIVERSITY

BRONZE