

Profile Image

DR. SHAHNURRIMAN BIN ABDUL RAHMAN

PENSYARAH UNIVERSITI DS13

CONTACT

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shahnurriman@usim.edu.my

Faculty: Fakulti Kejuruteraan
Dan Alam Bina

SUPERVISION

PhD - Completed: 0, Ongoing: 0

Master - Completed: 0, Ongoing: 2

AREAS OF EXPERTISE

Thermodynamics

Power Electronics

Power System

Electricity Transmission

ACADEMIC QUALIFICATION

PhD in Electrical & Electronic Engineering (2019)

Master in Kejuruteraan (elektrik - Kuasa) (2012)

Bachelor in Kejuruteraan (elektrik) (2010)

RESEARCH

1. ADVANCING BATTERY MONITORING SYSTEM WITH STATE-OF-HEALTH METRIC AT JAYALAX RESOURCES

2025

GERAN KPT

ON GOING

MAIN RESEARCHER

2. BATTERY MONITORING SYSTEM FOR GENERATOR SETS

2022

GERAN PENYELIDIKAN AGENSI KERAJAAN

COMPLETED

MAIN

RESEARCHER

3. CORROSION-AMPACITY MODELLING FOR AMPACITY PERFORMANCE INDEX FORMULATION ON OVERHEAD CONDUCTORS

2022

GERAN KPT

ON GOING

MAIN RESEARCHER

4. STUDY OF RAINFALL EFFECT TO OPTIMIZE POWER LINES PERFORMANCE

2020

GERAN PENYELIDIKAN USIM RACER

COMPLETED

MAIN

RESEARCHER

PUBLICATION

1. HIGH-TEMPERATURE LOW SAG CONDUCTOR: THE NEW TREND TO TRANSMIT ELECTRICITY

ADVANCEMENT IN ENGINEERING AND TECHNOLOGY

2024

CHAPTER IN BOOK

MAIN AUTHOR

2. IOT BASED INDOOR AIR AND WATER QUALITY MONITORING SYSTEM USING NODE-RED

9TH INTERNATIONAL CONFERENCE ON COMPUTER AND COMMUNICATION ENGINEERING (ICCCE 2023)

2023

PROCEEDING

SCOPUS

MAIN AUTHOR

3. ADVANCING OHL RATING CALCULATIONS: MODELING MIXED-CONVECTIVE COOLING AND CONDUCTOR GEOMETRY

IEEE TRANSACTIONS ON POWER DELIVERY

2022

JOURNAL

ISI

MAIN AUTHOR

4. EXAMINING THE IMPORTANCE OF CONDUCTOR SURFACE TRAIT ON AMPACITY DETERMINATION

2022 IEEE INTERNATIONAL CONFERENCE IN POWER ENGINEERING APPLICATION (ICPEA)

2022

PROCEEDING

NON-INDEX

MAIN AUTHOR

5. IMPROVING ELECTRO-THERMAL CALCULATION OF OVERHEAD LINES CONDUCTORS FOR MORE ON-GRID RENEWABLE ENERGY RESOURCES

ADVANCES IN SUSTAINABLE LIVING: ENGINEERING AND TECHNOLOGY

2021

CHAPTER IN BOOK

MAIN AUTHOR

6. IMPACT OF IDEALITY FACTOR AND SEMICONDUCTING MATERIAL ON PV MODULE PERFORMANCES

SEMINAR ANTARABANGSA ISLAM DAN SAINS (SAIS 2020)

2020

PROCEEDING

NON-INDEX

MAIN AUTHOR

7. FINITE ELEMENT MODELING OF OVERHEAD LINE THERMAL RATING METHOD

INTERNATIONAL SEMINAR ON ISLAM AND SCIENCE 2019 (SAIS2019)

2019

PROCEEDING

NON-INDEX

MAIN AUTHOR

8. THERMAL STATE ANALYSIS ON BUNDLED OVERHEAD LINE CONDUCTORS

MEDITERRANEAN CONFERENCE ON POWER GENERATION, TRANSMISSION, DISTRIBUTION AND ENERGY CONVERSION (MEDPOWER 2018)

2018

PROCEEDING

NON-INDEX

MAIN AUTHOR

9. IMPACT OF SIMPLIFIED CONVECTION MODEL IN OVERHEAD LINES THERMAL RATING CALCULATION METHODS

2018 IEEE/PES TRANSMISSION AND DISTRIBUTION CONFERENCE AND EXPOSITION (T&D)

2018

PROCEEDING

NON-INDEX

MAIN AUTHOR

10. MODELLING OF CONVECTIVE COOLING ON CONDUCTOR THERMAL RATING METHODS

2017 IEEE MANCHESTER POWERTECH

2017

PROCEEDING

NON-INDEX

MAIN AUTHOR

CONSULTATION

1. BATTERY STORAGE MANAGEMENT SYSTEM (BSMS) AND TECHNICAL KNOWLEDGE TRAINING

TECHNOPRENEUR UNIMAP SDN BHD

2021

NATIONAL

AWARDS/RECOGNITION

1. MUSOLLI COMPANION

4TH INNOVATION BANK CHALLENGE 2024 (IBC 2024)

2024

UNIVERSITI

BRONZE

2. BATTERY MONITORING SYSTEM FOR GENERATOR SETS

RESEARCH SEMINAR UNIVERSITI SAINS ISLAM MALAYSIA

2024

UNIVERSITI

CERTIFICATE OF APPRECIATION

3. PRODUCTIVITY CHAMPION

2023

NATIONAL

4. IOT- BASED BATTERY MONITORING SYSTEM

PERTANDINGAN REKACIPTA INOVASI INTERNASIONAL & NASIONAL 2022 (PRIIN 2022)

2022

ANTARABANGSA

SILVER

5. ICE BOX (INDOOR, COMFORT, ENVIRONMENT)

Persidangan dan Ekspo Ciptaan Institusi Pengajian Tinggi Antarabangsa (PECIPTA22)

2022

ANTARABANGSA

GOLD