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CONTACT

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Faculty: Fakulti
Kejuruteraan Dan Alam
Bina

SUPERVISION

PhD - Completed: 1, Ongoing: 0

Master - Completed: 0,
Ongoing: 0

AREAS OF EXPERTISE

Electric Discharges

Electrical Power Generation And Supply

High Voltage

Power System

ACADEMIC QUALIFICATION

PhD in Kejuruteraan Elektrik Kuasa (2017)

Master in Kejuruteraan Elektrik Kuasa (2013)

Bachelor in Kejuruteraan Elektrik Kuasa (2010)

RESEARCH

1. INVESTIGATION OF THE IMPACT OF CORROSIVE SULFUR ON THE DIELECTRIC PERFORMANCE OF SUSTAINABLE ESTER-BASED TRANSFORMER OILS

2026 GERAN PENYELIDIKAN FUNDAMENTAL ON GOING CO-RESEARCHER

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

2025 GERAN KPT ON GOING CO-RESEARCHER

3. INTEGRATING BATTERY MONITORING SYSTEM WITH THE STATE-OF-HEALTH METRIC AT JAYALAX RESOURCES

2025 GERAN PENYELIDIKAN INDUSTRI ON GOING CO-RESEARCHER

4. DEVELOPMENT OF DATA BASED ENERGY EFFICIENCY MANAGEMENT SYSTEM AT KAMPUS BAROKAH USIM FOR COST EFFECTIVE PRACTISE USING PREDICTIVE AND MACHINE LEARNING CAPABILITY

2022 GERAN PENYELIDIKAN USIM ON GOING CO-RESEARCHER

5. BATTERY MONITORING SYSTEM FOR GENERATOR SETS

2022 GERAN PENYELIDIKAN AGENSI KERAJAAN COMPLETED CO-RESEARCHER

RESEARCH

6. DEVELOPMENT OF MOBILE APPLICATION FOR "EDUCATIONAL GAMES FOR KIDS WITH LEARNING DISABILITIES: KID WONDERS - KINDERS"

2022 GERAN PENYELIDIKAN AGENSI KERAJAAN COMPLETED CO-RESEARCHER

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

2022 GERAN KPT ON GOING CO-RESEARCHER

8. INVESTIGATION OF INDUCED VOLTAGE ON UNDERGROUND TRANSMISSION CABLES WITHIN LINE CORRIDORS FOR URBAN PLANNING.

2021 GERAN KPT COMPLETED MAIN RESEARCHER

PUBLICATION

1. ANALYSIS OF UNDERGROUND TRANSMISSION CABLE AMPACITY FOR ON-SITE APPLICATIONS

JOURNAL OF ELECTRICAL AND ELECTRONIC SYSTEMS RESEARCH

2024 JOURNAL MYCITE CO-AUTHOR

2. INVESTIGATION OF LIGHTNING ELECTROMAGNETIC FIELDS ON THE DISTRIBUTION POWER LINES CLOSE TO THE LINE CORRIDOR TOWERS

2024 IEEE 4TH INTERNATIONAL CONFERENCE IN POWER ENGINEERING APPLICATIONS (ICPEA)

2024 PROCEEDING NON-INDEX MAIN AUTHOR

3. DEVELOPMENT OF BATTERY MONITORING SYSTEM FOR POWER GENERATORS: INSIGHTS AND EXPERIENCE

2024 POSTGRADUATE AND INDUSTRY RESEARCH COLLOQUIUM (PIRC)

2024 PROCEEDING NON-INDEX CO-AUTHOR

4. ANALYSIS OF ELECTRIC FIELD ON OVERHEAD DISTRIBUTION LINE DUE TO LIGHTNING STRIKE

2024 POSTGRADUATE AND INDUSTRY RESEARCH COLLOQUIUM (PIRC)

2024 PROCEEDING NON-INDEX CO-AUTHOR

5. PALM OIL AS A TRANSFORMER INSULATING FLUID: A REVIEW

2024 POSTGRADUATE AND INDUSTRY RESEARCH COLLOQUIUM (PIRC)

2024 PROCEEDING NON-INDEX CO-AUTHOR

6. CHAPTER 2 HIGH TEMPERATURE LOW SAG CONDUCTOR: THE NEW TREND TO TRANSMIT ELECTRICITY

ADVANCEMENT IN ENGINEERING AND TECHNOLOGY

2024 CHAPTER IN BOOK CO-AUTHOR

7. EFFECTS OF LIGHTNING ELECTROMAGNETIC FIELD DUE TO LIGHTNING STRIKES ON A TALL STRUCTURE

JOURNAL OF ELECTRICAL & ELECTRONIC SYSTEMS RESEARCH (JEESR)

2023 JOURNAL MYCITE MAIN AUTHOR

8. COMPARISON TECHNIQUES FOR OPTIMIZATION SWITCHING FREQUENCY IN ENERGY ENCRYPTION OF WIRELESS POWER TRANSFER SYSTEM

JOURNAL OF ADVANCED RESEARCH IN APPLIED SCIENCES AND ENGINEERING TECHNOLOGY

2022 JOURNAL MYCITE CO-AUTHOR

9. COMPARISON TECHNIQUES FOR OPTIMIZATION SWITCHING FREQUENCY IN ENERGY ENCRYPTION OF WIRELESS POWER TRANSFER SYSTEM

JOURNAL OF ADVANCED RESEARCH IN APPLIED SCIENCES AND ENGINEERING TECHNOLOGY

2022 JOURNAL OTHER DATABASE CO-AUTHOR

10. THE EFFECT OF THE AMBIENT TEMPERATURE PROFILE IN THE DETERMINATION OF POWER CABLE RATINGS

2022 IEEE INTERNATIONAL CONFERENCE ON POWER SYSTEMS TECHNOLOGY (POWERCON)

2022 PROCEEDING SCOPUS CO-AUTHOR

11. ANALYSIS OF PERMITTIVITY AND TEMPERATURE EFFECT ON CHARGE ACCUMULATION WITHIN CROSS-LINKED POLYETHYLENE (XLPE) VIA NUMERICAL SIMULATION

13TH INTERNATIONAL CONFERENCE ON THE PROPERTIES AND APPLICATIONS OF DIELECTRIC MATERIALS (ICPADM 2021)

2021 PROCEEDING NON-INDEX CO-AUTHOR

12. PARTIAL DISCHARGE DETECTION USING ROGOWSKI COIL SENSOR ON MEDIUM VOLTAGE AERIAL BUNDLE CABLE

JOURNAL OF ELECTRICAL & ELECTRONIC SYSTEMS RESEARCH (JEESR)

2020 JOURNAL MYCITE MAIN AUTHOR / CONTACT PERSON IN USIM

13. PARTIAL DISCHARGE DETECTION DEVICE USING ULTRASONIC SENSOR ON MEDIUM VOLTAGE XLPE CABLE

INDONESIAN JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

2019 JOURNAL SCOPUS CO-AUTHOR

PUBLICATION

14. LIGHTNING-INDUCED VOLTAGE ON DISTRIBUTION LINE DUE TO INCLINED LIGHTNING CHANNEL

2018 BOOK MAIN AUTHOR

15. VARIATIONS IN RETURN STROKE VELOCITY AND ITS EFFECT ON THE RETURN STROKE CURRENT ALONG LIGHTNING CHANNEL

INTERNATIONAL CONFERENCE ON LIGHTNING PROTECTION (ICLP)

2016 PROCEEDING NON-INDEX MAIN AUTHOR

16. EFFECT OF SOIL RESISTIVITY ON MAGNETIC FIELD IN THE CASE OF LIGHTNING STRIKE TO A TALL STRUCTURE

INTERNATIONAL CONFERENCE ON LIGHTNING PROTECTION (ICLP)

2016 PROCEEDING NON-INDEX MAIN AUTHOR

17. EFFECT OF THE GROUNDING SYSTEM ON THE LIGHTNING CURRENT PROFILE ALONG A TALL STRUCTURE

IET SCIENCE, MEASUREMENT & TECHNOLOGY

2015 JOURNAL JCR MAIN AUTHOR / CONTACT PERSON IN USIM

18. EFFECT OF THE GROUNDING SYSTEM ARRANGEMENT ON THE LIGHTNING CURRENT ALONG TALL STRUCTURES

INTERNATIONAL CONFERENCE ON LIGHTNING PROTECTION (ICLP),

2014 PROCEEDING NON-INDEX MAIN AUTHOR

19. ON THE BEHAVIOR OF LIGHTNING CURRENT AND CHARGE DENSITY IN THE CASE OF TALL TOWER

INTERNATIONAL CONFERENCE ON LIGHTNING PROTECTION (ICLP 2014)

2014 PROCEEDING NON-INDEX CO-AUTHOR

20. CHARACTERIZATION PRELIMINARY BREAKDOWN IN THE MEASURED LIGHTNING ELECTRIC FIELDS

IEEE 8TH INTERNATIONAL POWER ENGINEERING AND OPTIMIZATION CONFERENCE (PEOCO2014)

2014 PROCEEDING NON-INDEX CO-AUTHOR

21. ON THE BEHAVIOR OF LIGHTNING RETURN STROKE CURRENT INCIDENCE TO TALL TOWERS

IEEE 8TH INTERNATIONAL POWER ENGINEERING AND OPTIMIZATION CONFERENCE (PEOCO2014), LANGKAWI, THE JEWEL OF KEDAH, MALAYSIA.

2014 PROCEEDING NON-INDEX CO-AUTHOR

22. EVALUATION OF LIGHTNING INDUCED VOLTAGE DUE TO THE EFFECT OF DESIGN PARAMETERS ON MEDIUM VOLTAGE DISTRIBUTION LINE

JURNAL TEKNOLOGI (SCIENCES AND ENGINEERING)

2013 JOURNAL SCOPUS AND ERA MAIN AUTHOR / CONTACT PERSON IN USIM

23. EVALUATION OF LIGHTNING INDUCED OVER-VOLTAGE DUE TO VARIATIONS OF CHANNEL ANGLE

2013 IEEE 7TH INTERNATIONAL POWER ENGINEERING AND OPTIMIZATION CONFERENCE (PEOCO 2013)

2013 PROCEEDING NON-INDEX MAIN AUTHOR

24. ON THE INFLUENCE OF INCLINED LIGHTNING CHANNEL ON LIGHTNING INDUCED VOLTAGE EVALUATION

2012 INTERNATIONAL CONFERENCE ON LIGHTNING PROTECTION

2012 PROCEEDING NON-INDEX MAIN AUTHOR

CONSULTATION

1. PENILAIAN TEKNIKAL SIJIL GUNA PAKAI BAGI LIMA PRODUK FEEDER PILLAR

TNB LABS SDN BHD

2023

NATIONAL

2. LOW VOLTAGE HRC BLADE CONTACT TYPE

TNB LABS SDN BHD

2022

UNIVERSITY

3. BATTERY STORAGE MANAGEMENT SYSTEM (BSMS) AND TECHNICAL KNOWLEDGE

TECHNOPRENEUR UNIMAP SDN BHD (TUSB)

2021

UNIVERSITY

4. Penilaian Teknikal Sijil Guna Pakai bagi Dua Product Feeder Pillar

TNB Labs Sdn Bhd

Others

AWARDS/RECOGNITION

1. BEST PROJECT AWARD OF FINAL YEAR PROJECT

2024 UNIVERSITY

2. FINAL YEAR PROJECT & POSTGRADUATE: RESEARCH & INNOVATION POSTER COMPETITION (RIPC) 2024/ GOLD AWARD

2024 UNIVERSITY

3. IIUM RESEARCH & INNOVATION DAY 2024/ BRONZE AWARD

2024 UNIVERSITY

4. IIUM RESEARCH & INNOVATION DAY 2024/ BRONZE AWARD

2024 UNIVERSITY

5. INVESTIGATION OF LIGHTNING ELECTROMAGNETIC FIELDS ON THE DISTRIBUTION POWER LINES CLOSE TO THE LINE CORRIDOR TOWERS

2024 IEEE 4th International Conference in Power Engineering Applications

2024 ANTARABANGSA BEST PAPER AWARD

6. IOT- BASED BATTERY MONITORING SYSTEM

PERTANDINGAN REKACIPTA INOVASI INTERNASIONAL & NASIONAL 2022 (PRIIN 2022)

2022 ANTARABANGSA SILVER

7. PROJECT BASED LEARNING-ELECTRICAL POWER SYSTEM SIMULATION

Electrical Power System Simulation Competition (EPSSCOM)

2022 KEBANGSAAN CERTIFICATE OF APPRECIATION

8. PROJECT BASED LEARNING-ELECTRICAL POWER SYSTEM SIMULATION

2022 TheGreatLab Grand Design Challenge

2022 KEBANGSAAN CERTIFICATE OF APPRECIATION