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Address: Fakulti Sains Dan
Teknologi

SUPERVISION

PhD - Completed: 0, Ongoing: 0

Master - Completed: 2, Ongoing: 0

AREAS OF EXPERTISE

Nano Photonic

Nano - Materials

BIOGRAPHY

A lecturer from Fakulti Sains Dan Teknologi. Holds a Phd in Nanofotonik.

ACADEMIC QUALIFICATION

Phd in Nanofotonik (2014)

Master in Mikroelektronik (2009)

Bachelor in Kejuruteraan Elektrik Dan Elektronik (2008)

RESEARCH

1. ZNO:RGO COATED OPTICAL FIBER SENSOR FOR HEAVY METAL IONS DETECTION

2023

ON GOING

MAIN RESEARCHER

2. NANOCRYSTALLINE METAL OXIDE COATED POF FIBER FOR VOC SENSING APPLICATIONS

2015

COMPLETED

MAIN RESEARCHER

3. EVANESCENT FIELD STUDY ON A COATED U-SHAPED FIBER ABSORPTION SENSOR

2015

COMPLETED

MAIN RESEARCHER

PUBLICATION

1. PAPER PROCEEDINGS THE 10TH INTERNATIONAL CONFERENCE ON QURAN AS FOUNDATION OF CIVILIZATION (SWAT) 2025

2025 PROCEEDING

2. RAMAN AND CHNS-BASED ELUCIDATION OF CARBON DEVELOPMENT IN BANANA PEEL BIOMASS FOR SUSTAINABLE CARBON MATERIALS

2025 PROCEEDING

3. ZNO AND GO COATED PLASTIC OPTICAL FIBER FOR LOW CONCENTRATION OF ETHANOL DETECTION IN BEER

2024 JOURNAL

4. INSTRUMENTATION ANALYSIS OF FODS PERFORMANCE THROUGH BUNDLED PROBES AND LIGHT SOURCES

2023 PROCEEDING

5. SYNTHESIS OF GRAPHENE BASED NANOCOMPOSITES AND THEIR APPLICATION - A REVIEW

2022 JOURNAL

6. U-BENT POLYMER OPTICAL FIBER FOR ESCHERICHIA COLI DETECTION

2020 JOURNAL

7. DESIGN AND IMPLEMENTATION OF HOME SECURITY SYSTEM USING PIEZOELECTRIC SENSOR

2020 JOURNAL

8. ZNO COATED OPTICAL FIBER FOR ALCOHOL SENSING APPLICATIONS

2020 JOURNAL

9. ZINC OXIDE COATED POLYMER OPTICAL FIBER FOR MEASURING URIC ACID CONCENTRATIONS

2019 JOURNAL

10. EFFECT OF SOLUTION MOLARITY ON OPTICAL PROPERTIES OF AL DOPED ZNO THIN FILMS

2019 JOURNAL

11. EFFECT OF THICKNESS AND AGEING TIME ON OPTICAL PROPERTIES OF ZINC OXIDE FILM USING SOL-GEL METHOD

2018 JOURNAL

12. INFLUENCE OF ANNEALING TEMPERATURE ON OPTICAL PROPERTIES OF AL DOPED ZNO NANOPARTICLES VIA SOL-GEL METHODS

2018 PROCEEDING

13. EVANESCENT FIELD STUDY ON A U-SHAPED SILICA FIBER ABSORPTION SENSOR USING NON SEQUENTIAL RAY TRACING

2017 JOURNAL

14. CHEMICAL TAPERING OF POLYMER OPTICAL FIBER

2017 PROCEEDING

15. EFFECT OF SOLUTION MOLARITY ON OPTICAL PROPERTIES OF AL DOPED ZNO THIN FILMS

2017 PROCEEDING

16. AL DOPED ZNO COATED FIBER OPTIC FOR ULTRAVIOLET AND ACETONE SENSING

2013 JOURNAL

17. AN ULTRAVIOLET DETECTOR BASED ON AL-DOPED ZNO THIN FILMS PREPARED BY SOL-GEL METHOD

2013 JOURNAL

18. EFFECTS OF ULTRAVIOLET ILLUMINATION ON SOL-GEL SYNTHESIZED AL DOPED ZNO THIN FILMS.

2013 JOURNAL

19. OPTICAL VOC SENSING APPLICATION OF AL DOPED ZNO COATED FIBER OPTICS.

2013 JOURNAL

20. NANOCRYSTALLINE ALUMINIUM DOPED ZINC OXIDE COATED FIBER OPTIC FOR ULTRAVIOLET DETECTION

2013 JOURNAL

21. INFLUENCE OF DOPING CONCENTRATIONS OF SOL GEL DERIVED ZN_{1-x}MN_x THIN FILMS

2012 PROCEEDING

22. STRUCTURAL AND OPTICAL PROPERTIES OF NANOSTRUCTURED ZN_{1-x}MN_x THIN FILMS

2012 PROCEEDING

23. AL, IN AND SN DOPED ZNO COATED FIBER OPTIC FOR VOC SENSING APPLICATIONS

2012 PROCEEDING

24. ULTRAVIOLET SENSING BY AL-DOPED ZNO THIN FILMS

2011 PROCEEDING

25. EFFECTS OF MN DOPING CONCENTRATIONS ON PROPERTIES OF ZNO THIN FILMS

2011 PROCEEDING

26. EFFECT OF DOPING CONCENTRATIONS ON THE PROPERTIES OF MN-DOPED ZNO NANOSTRUCTURED THIN FILMS

2010 PROCEEDING

27. EFFECT OF MN DOPING ON THE STRUCTURAL AND OPTICAL PROPERTIES OF ZNO FILMS

2010 PROCEEDING

28. TUNING THE BANDGAP OF ZN_{1-x}MN_x THIN FILMS PREPARED BY THE SOL-GEL METHOD

2010 PROCEEDING

CONSULTATION/ADULATION

1. PERUNDINGAN FIBER OPTIK

University INSTITUT LATIHAN PERINDUSTRIAN (ILP) PEDAS

AWARDS/RECOGNITION

1. ENHANCING ANTIBACTERIAL PROPERTIES USING SILVER DOPED ZINC OXIDE NANOPARTICLES

2025 Antarabangsa Silver

2. FIBER OPTIC SENSOR FOR SOIL MOISTURE DETECTION

2025 Antarabangsa Bronze

3. HUMIDITY SENSOR USING AGAROSE-COATED POLYMER OPTICAL FIBER BASED ON TWISTED FIBER STRUCTURE

2025

Antarabangsa

Bronze

4. DOES THE MOON SHINE OR REFLECT? A QURANIC AND SCIENTIFIC EXPLORATION OF LUNAR LIGHT

2025

Antarabangsa

Best paper award

5. GO/ZNO NANOCOMPOSITE COATED PLASTIC OPTICAL FIBER FOR COPPER ION DETECTION IN DRINKING WATER

2024

Universiti

Silver