

PROF. MADYA DR. AFFA ROZANA BINTI ABDUL RASHID

PENSYARAH UNIVERSITI DS14

CONTACT

Phone: 067988786 E-mail: affarozana@usim.edu.my Faculty: 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 GERAN PENYELIDIKAN USIM ON GOING MAIN RESEARCHER

2. NANOCRYSTALLINE METAL OXIDE COATED POF FIBER FOR VOC SENSING APPLICATIONS 2015 GERAN KPT COMPLETED MAIN RESEARCHER

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

2015 GERAN PENYELIDIKAN JANGKA PENDEK COMPLETED MAIN RESEARCHER

PUBLICATION

1. ZNO AND GO COATED PLASTIC OPTICAL FIBER FOR LOW CONCENTRATION OF ETHANOL DETECTION IN BEER OPTOELECTRONICS AND ADVANCED MATERIALS ? RAPID COMMUNICATIONS (OPTOELECTRON. ADV. MAT.) 2024 JOURNAL ISI AND SCOPUS MAIN AUTHOR

2. INSTRUMENTATION ANALYSIS OF FODS PERFORMANCE THROUGH BUNDLED PROBES AND LIGHT SOURCES 11TH INTERNATIONAL CONFERENCE ON APPLIED SCIENCE AND TECHNOLOGY 2022

2023 PROCEEDING NON-INDEX MAIN AUTHOR

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

OPTOELECTRONICS AND ADVANCED MATERIALS ? RAPID COMMUNICATIONS (OPTOELECTRON. ADV. MAT.)

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

MALAYSIAN JOURNAL OF SCIENCE HEALTH & TECHNOLOGY

2020 JOURNAL OTHERS DATABASE MAIN AUTHOR

5. ZNO COATED OPTICAL FIBER FOR ALCOHOL SENSING APPLICATIONS

SOLID STATE PHENOMENA

2020 JOURNAL SCOPUS MAIN AUTHOR

6. ZINC OXIDE COATED POLYMER OPTICAL FIBER FOR MEASURING URIC ACID CONCENTRATIONS OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS

2019 JOURNAL ISI MAIN AUTHOR

7. EFFECT OF SOLUTION MOLARITY ON OPTICAL PROPERTIES OF AL DOPED ZNO THIN FILMS JOURNAL OF PHYSICS.: CONFERENCE SERIES 2019 JOURNAL SCOPUS MAIN AUTHOR

8. EFFECT OF THICKNESS AND AGEING TIME ON OPTICAL PROPERTIES OF ZINC OXIDE FILM USING SOL-GEL METHOD INTERNATIONAL JOURNAL OF NANOELECTRONICS AND MATERIALS

2018 JOURNAL SCOPUS MAIN AUTHOR

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

INTERNATIONAL CONFERENCE ON RECENT ADVANCEMENTS IN SCIENCE AND TECHNOLOGY

2018 PROCEEDING NON-INDEX MAIN AUTHOR

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

SOLID STATE PHENOMENA

2017 JOURNAL WOS MAIN AUTHOR

11. CHEMICAL TAPERING OF POLYMER OPTICAL FIBER

THE INTERNATIONAL CONFERENCE ON APPLIED PHOTONICS AND ELECTRONICS 2017

2017 PROCEEDING NON-INDEX MAIN AUTHOR

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

7TH ASIAN PHYSICS SYMPOSIUM

2017 PROCEEDING NON-INDEX MAIN AUTHOR

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

ADVANCED SCIENCE LETTERS

2013 JOURNAL SCOPUS MAIN AUTHOR

PUBLICATION

14. AN ULTRAVIOLET DETECTOR BASED ON AL-DOPED ZNO THIN FILMS PREPARED BY SOL?GEL METHOD ADVANCED SCIENCE LETTERS

2013 JOURNAL SCOPUS MAIN AUTHOR

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

ADVANCED SCIENCE LETTERS

2013 JOURNAL SCOPUS MAIN AUTHOR

16. OPTICAL VOC SENSING APPLICATION OF AL DOPED ZNO COATED FIBER OPTICS. OPTOELECTRONICS AND ADVANCED MATERIALS, RAPID COMMUNICATIONS

2013 JOURNAL WOS MAIN AUTHOR

17. NANOCRYSTALLINE ALUMINIUM DOPED ZINC OXIDE COATED FIBER OPTIC FOR ULTRAVIOLET DETECTION JOURNAL NONLINEAR OPTICAL PHYSICS AND MATERIALS

2013 JOURNAL WOS MAIN AUTHOR

 18. INFLUENCE OF DOPING CONCENTRATIONS OF SOL GEL DERIVED ZN1-XMNXO THIN FILMS

 INTERNATIONAL CONFERENCE ON APPLIED MATERIALS AND ELECTRONICS ENGINEERING (AMEE 2012)

 2012
 PROCEEDING

 NON-INDEX
 MAIN AUTHOR

19. STRUCTURAL AND OPTICAL PROPERTIES OF NANOSTRUCTURED ZN1-XMNXO THIN FILMS INTERNATIONAL CONFERENCE ON APPLIED MATERIALS AND ELECTRONICS ENGINEERING (AMEE 2012) 2012 PROCEEDING NON-INDEX MAIN AUTHOR

20. AL, IN AND SN DOPED ZNO COATED FIBER OPTIC FOR VOC SENSING APPLICATIONS THE 3RD ISESCO INTERNATIONAL WORKSHOP AND CONFERENCE ON NANOTECHNOLOGY 2012 PROCEEDING NON-INDEX MAIN AUTHOR

21. ULTRAVIOLET SENSING BY AL-DOPED ZNO THIN FILMS

THE INTERNATIONAL CONFERENCE FOR NANOMATERIALS SYNTHESIS AND CHARACTERIZATION 2011 (INSC 2011)
2011 PROCEEDING NON-INDEX MAIN AUTHOR

22. EFFECTS OF MN DOPING CONCENTRATIONS ON PROPERTIES OF ZNO THIN FILMS IEEE REGIONAL SYMPOSIUM ON MICRO AND NANOELECTRONICS (RSM),

2011 PROCEEDING NON-INDEX MAIN AUTHOR

23. EFFECT OF DOPING CONCENTRATIONS ON THE PROPERTIES OF MN-DOPED ZNO NANOSTRUCTURED THIN FILMS THE 4TH ASIAN PHYSICS SYMPOSIUM-AN INTERNATIONAL SYMPOSIUM. AIP CONFERENCE PROCEEDINGS 2010 PROCEEDING NON-INDEX MAIN AUTHOR

24. EFFECT OF MN DOPING ON THE STRUCTURAL AND OPTICAL PROPERTIES OF ZNO FILMS IEEE INTERNATIONAL CONFERENCE ON SEMICONDUCTOR ELECTRONICS

2010 PROCEEDING NON-INDEX MAIN AUTHOR

25. TUNING THE BANDGAP OF ZN1?XMNXO THIN FILMS PREPARED BY THE SOL-GEL METHOD 2010 INTERNATIONAL CONFERENCE ON PHOTONICS (ICP)

2010 PROCEEDING NON-INDEX MAIN AUTHOR

CONSULTATION

1. PERUNDINGAN FIBER OPTIK

INSTITUT LATIHAN PERINDUSTRIAN (ILP) PEDAS

University

AWARDS/RECOGNITION

1. GO/ZNO NANOCOMPOSITE COATED PLASTIC OPTICAL FIBER FOR COPPER ION DETECTION IN DRINKING WATER 4TH INNOVATION BANK CHALLENGE 2024 (IBC 2024)

2024 UNIVERSITI SILVER

2. IOT ENHANCED SMART SENSORS: BRING OBSERVATORY CLOSER TO HOME

4TH INNOVATION BANK CHALLENGE 2024 (IBC 2024)

2024 UNIVERSITI GOLD

3. GRAPHENE OXIDE COATED OPTICAL FIBER FOR HONEY ADULTERATION DETECTION SCEINCE AND TECHNOLOGY RESEARCH EXPO (SCITEX) 2024 UNIVERSITI GOLD

4. FLEXIBLE MICRO STRIP PATCH ANTENNA SENSOR FOR POSTURE MONITORING SCEINCE AND TECHNOLOGY RESEARCH EXPO (SCITEX)

2024 UNIVERSITI BRONZE

5. ANUGERAH PERKHIDMATAN CEMERLANG 2022

2023 UNIVERSITY