Profile Image

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CONTACT

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FACULTY
Fakulti Kejuruteraan Dan Alam Bina

SUPERVISION

	COMPLETED	ONGOING
PhD	0	2
Master	3	4

AREAS OF EXPERTISE

- Sensor Technology In Control And Instrumentation
- Digital Tomography (including Computer Tomography)
- Optical And Optoelectronics Engineering

ACADEMIC QUALIFICATION

- 2016 **PhD** - Kejuruteraan Elektrik
- 2013 **Master** - Kejuruteraan Elektrik- Mekatronik Dan Kawlan Automatik
- 2008 **Bachelor** - Kejuruteraan Elektrik- Kawalan Dan Instrumentasi

RESEARCH

1. **ANOMALY DETECTION IN WATER QUALITY PARAMETERS AND POLLUTION PREDICTION BASED ON REGRESSION AND RANDOM FOREST THEORY**
   2026 | GERAN SEPADAN ANTARABANGSA | ON GOING | CO-RESEARCHER
2. **THE EFFECTIVENESS OF REMOTE PHOTOPLETHYSMOGHRAPHY (PPG) TECHNOLOGY IN ASSESSING VITAL SIGN AMONG PATIENTS VISITED DENTAL CLINICS**
   2025 | GERAN PENYELIDIKAN INDUSTRI | ON GOING | CO-RESEARCHER
3. **ARTIFICIAL INTELLIGENCE APPLICATIONS FOR INDUSTRIAL PIPELINE INTEGRITY MONITORING**
   2025 | BIDUNI MIZANNIYAH | ON GOING | MAIN RESEARCHER
4. **GOLD AUTHENTICATION SYSTEM**
   2025 | GERAN PENYELIDIKAN INDUSTRI | ON GOING | MAIN RESEARCHER
5. **UAV-BASED AUTOMATED OIL PALM TREE DETECTION AND COUNTING**
   2025 | GERAN PENYELIDIKAN INDUSTRI | ON GOING | CO-RESEARCHER

RESEARCH

6. SURFACE PLASMON RESONANCE-BASED PHOTONIC CRYSTAL FIBER SENSOR FOR ACCURATE MICROPLASTIC DETECTION IN WATER USING ARTIFICIAL NEURAL NETWORKS

2025 | GERAN KPT | ON GOING | CO-RESEARCHER

7. INVESTIGATING THE POTENTIAL OF PORTABLE WATER QUALITY INSPECTION SYSTEM INTEGRATED WITH TF MINI-S LIDAR AND IOT MONITORING SYSTEM

2024 | GERAN ANTARABANGSA | ON GOING | MAIN RESEARCHER

8. QURANIC SIGN LANGUAGE DETECTION SYSTEM USING LSTM NEURAL NETWORK

2024 | GERAN PENYELIDIKAN USIM | ON GOING | CO-RESEARCHER

9. SALAH CHAIR

2023 | GERAN PENYELIDIKAN LAB2MARKET | ON GOING | MAIN RESEARCHER

10. DEVELOPMENT OF UPPER LIMB EXOSKELETON SYSTEM

2023 | GERAN PEMBANGUNAN INOVASI (GPI) | ON GOING | MAIN RESEARCHER

11. DEVELOPMENT OF MOBILE APPLICATION FOR WOMEN'S "PRELOVED" BUSINESS PLATFORM: FASHION ARCHADE (FACADE)

2022 | GERAN PENYELIDIKAN AGENSI KERAJAAN | COMPLETED | MAIN RESEARCHER

12. CONCEPTUAL MODELLING OF DUAL-MODE TOMOGRAPHY TECHNIQUE FOR DENTAL DIAGNOSTICS BASED ON ULTRASOUND AND LIGHT PROPAGATION ANALYSIS.

2022 | GERAN PENYELIDIKAN USIM | ON GOING | MAIN RESEARCHER

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

2022 | GERAN PENYELIDIKAN AGENSI KERAJAAN | COMPLETED | CO-RESEARCHER

14. DEVELOPMENT OF LASER ILLUMINATION WARNING SYSTEM BASED ON LASER PHOTODIODE AND DETECTION TECHNOLOGY

2022 | GERAN PENYELIDIKAN INDUSTRI | COMPLETED | CO-RESEARCHER

15. A CONCEPTUAL MODELLING OF QUANTITATIVE GRADING VALUATION OF RUBY STONE VIA USING CHARGE-COUPLED DEVICE (CCD) TOMOGRAPHY APPROACH

2020 | GERAN KPT | COMPLETED | MAIN RESEARCHER

16. OPTIMIZATION OF NEAR INFRARED SPECTROSCOPY (NIRS) CONFIGURATION PARAMETERS FOR HAND, FOOT AND MOUTH DISEASE (HFMD) DETECTION

2020 | GERAN PENYELIDIKAN USIM RACER | COMPLETED | CO-RESEARCHER

17. INVESTIGATING LIGHT SCATTERING ON PROPERTIES OF RANDOM LASERS BASED ON SCATTERING PROBABILITY THEORY FOR POTENTIAL USE IN MEDICAL AND BIOSENSING APPLICATIONS

2019 | GERAN KPT | COMPLETED | CO-RESEARCHER

RESEARCH

18. SECURITY-HARDENED DESIGN SPACE EXPLORATION FOR HARD REAL-TIME EMBEDDED NOC IN CYBER-PHYSICAL SYSTEMS

2018 | GERAN PENYELIDIKAN USIM | COMPLETED | MAIN RESEARCHER

19. ANALYZING PERFORMANCE OF RANDOM LASERS AS THE OPTICAL DEVICES FOR BIOSENSING AND MEDICAL APPLICATIONS

2018 | GERAN PENYELIDIKAN USIM | COMPLETED | CO-RESEARCHER

20. THE STUDY OF DRUNKEN ABNORMAL HUMAN GAIT RECOGNITION USING ACCELEROMETERS IN MOBILE APPLICATION

2018 | GERAN PENYELIDIKAN USIM | COMPLETED | CO-RESEARCHER

21. ULTRA-HIGH SENSITIVE BIOANALYTICAL DETERMINATION OF LARD USING NANOHYBRID BIOSENSING APPROACH AS A TOOL FOR HALAL PRODUCT INVESTIGATION

2018 | GERAN PENYELIDIKAN KHAS | ON GOING | CO-RESEARCHER

PUBLICATION

1. THE IDENTIFICATION OF OPTIMAL FREQUENCY FOR ULTRASONIC TRANSDUCERS IN CONCRETE-DEFECT DETECTION USING COMSOL® SIMULATOR

ELEKTRIKA

2025 | JOURNAL | OTHER DATABASE | CO-AUTHOR

2. ASSISTIVE PRAYER TECHNOLOGY: DEVELOPING A RAKAAT TRACKING SYSTEM FOR ELDERLY MUSLIMS WITH PHYSICAL LIMITATIONS

JOURNAL OF TOMOGRAPHY SYSTEM & SENSORS APPLICATION

2025 | JOURNAL | OTHER DATABASE | CORRESPONDING AUTHOR

3. EXPLORING LIDAR AS A SCALABLE PHOTONIC ALTERNATIVE TO TURBIDIMETERS FOR WATER TURBIDITY MONITORING

JURNAL OPTOELEKTRONIK

2025 | JOURNAL | OTHER DATABASE | CORRESPONDING AUTHOR

4. POTENTIAL OF PORTABLE SOLAR POWERED ELECTROLYSIS SYSTEM FOR OFF-GRID HYDROGEN GENERATION

JOURNAL OF TOMOGRAPHY SYSTEM & SENSORS APPLICATION

2025 | JOURNAL | OTHER DATABASE | CORRESPONDING AUTHOR

5. SIMULATION OF A DUAL-SIDE POLISHED PHOTONIC CRYSTAL FIBER FOR SURFACE PLASMON RESONANCE SENSING

JURNAL OPTOELEKTRONIK

2025 | JOURNAL | OTHER DATABASE | CORRESPONDING AUTHOR

PUBLICATION

6. NUMERICAL OPTIMIZATION OF A SINGLE-MODE FIBER-BASED SPR SENSOR FOR AIR CONTAMINANT DETECTION APPLICATIONS

JURNAL OPTOELEKTRONIK

2025 | JOURNAL | OTHER DATABASE | CORRESPONDING AUTHOR

7. OVERVIEW ON PIPELINE LEAKAGE IN CARBON CAPTURE STORAGE

2025 IEEE 8TH INTERNATIONAL CONFERENCE ON ELECTRICAL, CONTROL AND COMPUTER ENGINEERING (INECCE)

2025 | PROCEEDING | NON-INDEX | CORRESPONDING AUTHOR

8. SIMULATION-BASED ULTRASONIC WAVE ANALYSIS FOR NON-DESTRUCTIVE GOLD AUTHENTICATION

2025 INTERNATIONAL CONFERENCE ON SCIENCE, BUILT ENVIRONMENT AND ENGINEERING

2025 | PROCEEDING | NON-INDEX | CORRESPONDING AUTHOR

9. CONCEPTUAL MODELLING OF GOLD AUTHENTICATION SYSTEM BASED ON ULTRASOUND PROPAGATION ANALYSIS

2025 INTERNATIONAL CONFERENCE ON SCIENCE, BUILT ENVIRONMENT AND ENGINEERING

2025 | PROCEEDING | NON-INDEX | CORRESPONDING AUTHOR

10. ADVANCEMENTS IN HAND ASSISTIVE TECHNOLOGIES FOR STROKE REHABILITATION: A SYSTEMATIC REVIEW OF MECHANISMS AND INNOVATIONS

2025 IEEE 8TH INTERNATIONAL CONFERENCE ON ELECTRICAL, CONTROL AND COMPUTER ENGINEERING (INECCE)

2025 | PROCEEDING | SCOPUS | CORRESPONDING AUTHOR

11. ULTRASONIC TOMOGRAPHY APPROACH FOR DETECTING FOREIGN OBJECTS IN MILK PACKAGING: A SIMULATION STUDY

AI APPLICATIONS IN FOOD PROCESSING AND PACKAGING

2025 | CHAPTER IN BOOK | CORRESPONDING AUTHOR

12. PROPOSED FRAMEWORK FOR SPATIAL MODELING OF PARTICULATE METTER 2.5 (PM2.5) CONCENTRATION USING COMBINATION OF GEOSTATISTICAL AND MIX ENSEMBLE MODEL

SENSOR & INSTRUMENTATION SYSTEM SERIES 42

2025 | CHAPTER IN BOOK | CO-AUTHOR

13. SMART SURVEILLANCE CAMERA SYSTEM: REAL-TIME WEAPON AND MASK DETECTION WITH TELEGRAM NOTIFICATION

SENSOR & INSTRUMENTATION SYSTEM

2025 | CHAPTER IN BOOK | CO-AUTHOR

14. ASAM DI DARART, IKAN DI LAUT, DI DALAM BELANGA BERTEMU JUGA

ASPIRASI DAN MEMOIR HAL EHWAL PELAJAR DAN ALUMNI- MERENTAS SEJARAH MENJANA IMPAK

2025 | CHAPTER IN BOOK | MAIN AUTHOR

15. A CONCEPTUAL MODELING OF ULTRASONIC TOMOGRAPHY SYSTEM TO DETECT EARLY CARIES LESIONS

JURNAL TEKNOLOGI

2024 | JOURNAL | ERA | CORRESPONDING AUTHOR

PUBLICATION

16. APPLICATION OF PHOTOACOUSTIC SYSTEM FOR CARIES DETECTION: SYSTEMATIC REVIEW

JOURNAL OF TOMOGRAPHY SYSTEM & SENSORS APPLICATION

2024 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

17. DETECTION OF CHEMICAL CONTAMINANTS IN WATER FOR IRRIGATION SYSTEMS: A SYSTEMATIC REVIEW

JOURNAL OF ADVANCED RESEARCH IN APPLIED SCIENCES AND ENGINEERING TECHNOLOGY

2024 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

18. EMPOWERING MEDICAL STUDENTS BY FACILITATING CARDIOPULMONARY RESUSCITATION TRAINING FOR THEIR PEER

MALAYSIAN JOURNAL OF SCIENCE, HEALTH & TECHNOLOGY

2024 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

19. PRELIMINARY DESIGN: INTEGRATION OF ELECTROLYSIS AND THIN-FILM SOLAR TECHNOLOGY FOR ONBOARD HYDROGEN PRODUCTION IN FUEL CELL VEHICLE (FCV)

TECHNOLOGY, ENGINEERING, AND SCIENCE INTERNATIONAL CONFERENCE (THESIC 2024) - HYBRID

2024 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

20. INTERNATIONAL FINAL YEAR PROJECT COMPETITION AND EXHIBITION (ICPEX) 2023

INTERNATIONAL FINAL YEAR PROJECT COMPETITION AND EXHIBITION (ICPEX) 2023

2024 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

21. DESIGN OF BATTERY SWITCHING SYSTEM FOR MOTORISED-RING MAIN UNIT (M-RMU) SYSTEM

SENSOR & INSTRUMENTATION SYSTEM SERIES 38

2024 CHAPTER IN BOOK CO-AUTHOR

22. DETECTION OF WATER CONTAMINATION USING SPECTROSCOPY

ADVANCEMENT IN ENGINEERING AND TECHNOLOGY

2024 CHAPTER IN BOOK CO-AUTHOR

23. A5/1 STREAM CIPHER IN GLOBAL SYSTEM FOR MOBILE GSM EMPIRICAL PERSPECTIVES

ADVANCEMENT IN ENGINEERING AND TECHNOLOGY

2024 CHAPTER IN BOOK CO-AUTHOR

24. REDESIGNING THE LASER WARNING SYSTEMS FOR MILITARY APPLICATIONS

ADVANCEMENT IN ENGINEERING TECHNOLOGY

2024 CHAPTER IN BOOK CO-AUTHOR

25. A CONCEPTUAL MODEL OF DUAL-MODE TOMOGRAPHY TECHNIQUE FOR DENTAL DIAGNOSTICS

JOURNAL OF TOMOGRAPHY SYSTEM & SENSORS APPLICATION

2023 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

26. A REVIEW ON CURRENT DIAGNOSTIC TOOLS AND POTENTIAL OPTICAL ABSORPTION SPECTROSCOPY FOR HFMD DETECTION

ANALYTICAL BIOCHEMISTRY

2023 JOURNAL ERA CO-AUTHOR

PUBLICATION

27. DURIAN DETECTION AND COUNTING SYSTEM USING DEEP LEARNING

JOURNAL OF ENGINEERING SCIENCE AND TECHNOLOGY

2023 JOURNAL ERA CO-AUTHOR

28. NON-INVASIVE GRADING TECHNIQUE FOR RUBY GEMSTONE USING CHARGE-COUPLED DEVICE (CCD)

ASEAN ENGINEERING JOURNAL

2023 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

29. SIMULATION STUDY OF ULTRASONIC TOMOGRAPHY APPROACH IN DETECTING FOREIGN OBJECT IN MILK PACKAGING

JOURNAL OF TOMOGRAPHY SYSTEM & SENSORS APPLICATION

2023 JOURNAL OTHER DATABASE MAIN AUTHOR

30. INTEGRATION OF SENSING FRAMEWORK WITH A DECISION SUPPORT SYSTEM FOR MONITORING WATER QUALITY IN AGRICULTURE

AGRICULTURE

2023 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

31. A REVIEW ON OPTICAL COHERENCE TOMOGRAPHY (OCT) TECHNIQUE IN DENTISTRY APPLICATION: LIMITATIONS AND CHALLENGES

2023 1ST IEEE INTERNATIONAL CONFERENCE ON SMART TECHNOLOGY (ICE-SMARTEC). BANDUNG, INDONESIA, 17-19 JULY 2023

2023 PROCEEDING SCOPUS CORRESPONDING AUTHOR

32. A PRELIMINARY INVESTIGATION ON THE CORRELATION BETWEEN THE ARRIVAL TIME OF ULTRASONIC SIGNALS AND THE CONCRETE CONDITION

22ND ASIA SIMULATION CONFERENCE METHODS AND APPLICATIONS FOR MODELING AND SIMULATION OF COMPLEX SYSTEMS

2023 PROCEEDING SCOPUS CO-AUTHOR

33. A SIMULATION OF SINGLE AND SEGMENTED EXCITATION IN ELECTRICAL CAPACITANCE TOMOGRAPHY SYSTEM

22ND ASIA SIMULATION CONFERENCE METHODS AND APPLICATIONS FOR MODELING AND SIMULATION OF COMPLEX SYSTEMS

2023 PROCEEDING SCOPUS CO-AUTHOR

34. A CONCEPTUAL MODEL OF DUAL-MODE TOMOGRAPHY TECHNIQUE FOR DENTAL DIAGNOSTICS: ULTRASOUND AND LIGHT PROPAGATION ANALYSIS.

8TH INTERNATIONAL CONFERENCE ON MAN MACHINE SYSTEMS 2023 JOURNAL OF PHYSICS: CONFERENCE SERIES

2023 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

35. BENEFIT OF MIXED MODULATION FORMAT IN OPTICAL NETWORK : AN OVERVIEW

TECHNOLOGIES IN SCIENCE AND ENGINEERING: A MULTIDISCIPLINARY APPROACH

2023 CHAPTER IN BOOK CO-AUTHOR

36. PRINCIPLES, CHARACTERISTICS AND APPLICATION OF OPTICAL FIBRE IN TELECOMMUNICATION AND SENSORY SYSTEM

TECHNOLOGIES IN SCIENCE AND ENGINEERING: A MULTIDISCIPLINARY APPROACH

2023 CHAPTER IN BOOK CO-AUTHOR

PUBLICATION

37. THE SMART GRASS-CUTTING ROBOT WITH UPCYCLING SOLAR MODULE

TECHNOLOGIES IN SCIENCE AND ENGINEERING: A MULTIDISCIPLINARY APPROACH

2023 CHAPTER IN BOOK CO-AUTHOR

38. OPTICAL SPECTROSCOPY POTENTIAL APPROACH FOR EARLY DISEASE DETECTION: HFMD CASE

TECHNOLOGIES IN SCIENCE AND ENGINEERING: A MULTIDISCIPLINARY APPROACH

2023 CHAPTER IN BOOK CO-AUTHOR

39. SYSTEM IDENTIFICATION AND POSITION CONTROL OF PNEUMATIC ACTUATOR

SENSOR & INSTRUMENTATION SYSTEM SERIES 34

2023 CHAPTER IN BOOK CO-AUTHOR

40. DUAL-AXIS PHOTOVOLTAIC TRACKING SYSTEM REAL-TIME ONLINE MONITORING USING THINGSPEAK

SENSOR & INSTRUMENTATION SYSTEM SERIES 34

2023 CHAPTER IN BOOK CO-AUTHOR

41. DISTANCE MEASUREMENT AND OBSTACLE DETECTION

SENSOR & INSTRUMENTATION SYSTEM SERIES 33

2023 CHAPTER IN BOOK CO-AUTHOR

42. POWER MANAGEMENT SYSTEM OF HOME APPLIANCES

SENSOR & INSTRUMENTATION SYSTEM SERIES 33

2023 CHAPTER IN BOOK CO-AUTHOR

43. SMART PARKING SYSTEM IN UTM BASED ON IOT

SENSOR & INSTRUMENTATION SYSTEM SERIES 35

2023 CHAPTER IN BOOK CO-AUTHOR

44. FLOOD WARNING, PREVENTING, CONTROL, AND MONITORING SYSTEM

SENSOR & INSTRUMENTATION SYSTEM SERIES 35

2023 CHAPTER IN BOOK CO-AUTHOR

45. DESIGN AND ANALYSIS OF WATER QUALITY MONITORING AND FILTRATION SYSTEM FOR DIFFERENT TYPES OF WATER IN MALAYSIA

INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY

2022 JOURNAL ERA CO-AUTHOR

46. ADVANCEMENTS IN MONITORINGWATER QUALITY BASED ON VARIOUS SENSING METHODS: A SYSTEMATIC REVIEW

INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH

2022 JOURNAL ERA CO-AUTHOR

47. SMART AUTOMATIC COOLING SYSTEM WITH REDUCED HUMIDITY EFFECT FOR PET HOUSE DURING COVID-19 CRISIS

ASM SCIENCE JOURNAL

2022 JOURNAL SCOPUS CO-AUTHOR

PUBLICATION

48. STRATEGIES IN IMPROVING THE BUILDING EFFICIENCY AND DAYLIGHTING: A CASE STUDY OF GREEN BUILDING

PLANNING MALAYSIA: JOURNAL OF THE MALAYSIAN INSTITUTE OF PLANNERS

2022 | JOURNAL | OTHER DATABASE | CO-AUTHOR

49. RESILLIENT LIVING BY OPTIMIZING THE BUILDING FA&#65533;ADE IN DESIGNING POST-COVID HOUSING

PLANNING MALAYSIA JOURNAL

2022 | JOURNAL | OTHER DATABASE | MAIN AUTHOR

50. A REVIEW ON WATER QUALITY MONITORING METHODS BASED ON ELECTRONICS AND OPTICAL SENSING

JOURNAL OF ADVANCED RESEARCH IN APPLIED SCIENCES AND ENGINEERING TECHNOLOGY

2022 | JOURNAL | OTHER DATABASE | CORRESPONDING AUTHOR

51. A STUDY ON THE ARRIVAL TIME OF ULTRASONIC WAVES IN CONCRETE MATERIAL

3RD INTERNATIONAL CONFERENCE ON CONTROL, INSTRUMENTATION AND MECHATRONICS ENGINEERING (CIM2022)

2022 | PROCEEDING | NON-INDEX | CO-AUTHOR

52. A STUDY OF THE EFFECT OF PIPE MATERIAL IN ELECTRICAL CAPACITANCE TOMOGRAPHY FOR GAS-SOLID FLOW

3RD INTERNATIONAL CONFERENCE ON CONTROL, INSTRUMENTATION AND MECHATRONICS ENGINEERING (CIM2022)

2022 | PROCEEDING | NON-INDEX | CO-AUTHOR

53. EYE-SEE:AI-DEVELOPED DEVICE FOR THE VISUALLY IMPAIRED

SENSOR & INSTRUMENTATION SYSTEM

2022 | CHAPTER IN BOOK | CO-AUTHOR

54. LINEAR ARX MODELLING OF PNEUMATIC ACTUATOR SYSTEM

SENSOR & INSTRUMENTATION SYSTEM

2022 | CHAPTER IN BOOK | CO-AUTHOR

55. PASSIVE INFRARED SENSOR FOR HOME SECURITY SYSTEM

SENSOR & INSTRUMENTATION SYSTEM

2022 | CHAPTER IN BOOK | CO-AUTHOR

56. A RUBY STONE GRADING INSPECTION USING AN OPTICAL TOMOGRAPHY SYSTEM

ARTIFICIAL INTELLIGENCE AND SPECTROSCOPIC TECHNIQUES FOR GEMOLOGY APPLICATIONS

2022 | CHAPTER IN BOOK | CORRESPONDING AUTHOR

57. A FINITE ELEMENT METHOD USING COMSOL ON ERT APPLYING METAL WALL PIPE: EFFECT ON THE POTENTIAL DISTRIBUTION AND CURRENT STREAMLINE

JOURNAL OF TOMOGRAPHY SYSTEM & SENSORS APPLICATION

2021 | JOURNAL | OTHER DATABASE | MAIN AUTHOR / CONTACT PERSON IN USIM

58. INITIAL STUDY OF INVASIVE APPROACH OF ELECTRICAL CAPACITANCE TOMOGRAPHY FOR IDENTIFYING NONCONDUCTING MEDIUM IN STEEL PIPE APPLICATION

ELEKTRIKA- JOURNAL OF ELECTRICAL ENGINEERING

2021 | JOURNAL | MYCITE | MAIN AUTHOR / CONTACT PERSON IN USIM

PUBLICATION

59. DOES PARALLEL PROJECTION IS SUITABLE IN ELECTRICAL CAPACITANCE TOMOGRAPHY? ?A COMPARISON WITH COMMON APPROACH

JOURNAL OF TOMOGRAPHY SYSTEM & SENSORS APPLICATION

2021 JOURNAL OTHER DATABASE MAIN AUTHOR / CONTACT PERSON IN USIM

60. A PRELIMINARY RESULT ON ELECTRICAL CAPACITANCE TOMOGRAPHY FOR GAS-SOLID FLOW IN PNEUMATIC CONVEYOR SYSTEM.

ELEKTRIKA- JOURNAL OF ELECTRICAL ENGINEERING

2021 JOURNAL MYCITE MAIN AUTHOR / CONTACT PERSON IN USIM

61. MODELLING OF ERT FOR HOUSEHOLD UNDERGROUND PIPE DETECTION USING COMSOL MULTIPHYSICS

JOURNAL OF TOMOGRAPHY SYSTEM & SENSORS APPLICATION

2021 JOURNAL OTHER DATABASE MAIN AUTHOR / CONTACT PERSON IN USIM

62. ONLINE SIMULATION TO MONITOR MULTIPHASE FLOW USING LASER SOURCE AS TRANSMITTER

OPTIK-INTERNATIONAL JOURNAL FOR LIGHT AND ELECTRON OPTICS

2021 JOURNAL ISI, SCOPUS AND ERA MAIN AUTHOR

63. A STUDY ON THE SELF-SUSTAINING SOLAR MODULE BY UTILIZING SOLAR CELL FROM NON-DEGRADABLE WASTE

REKAYASA HIJAU: JURNAL TEKNOLOGI RAMAH LINGKUNGAN

2021 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

64. GAS-SOLID TWO-PHASE FLOW OF PULVERIZED COAL BY ECT: A REVIEW

JOURNAL OF TOMOGRAPHY SYSTEM & SENSORS APPLICATION

2021 JOURNAL OTHER DATABASE MAIN AUTHOR / CONTACT PERSON IN USIM

65. ANALYSIS ON CLARITY OF RUBIES GEMSTONES USING CHARGE-COUPLED DEVICE (CCD)

JOURNAL OF TOMOGRAPHY SYSTEM & SENSORS APPLICATION

2021 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

66. SIMULATION STUDY ON CCD TOMOGRAPHY SYSTEM FOR RUBY STONE OPTICAL PROPERTIES

JOURNAL OF TOMOGRAPHY SYSTEM & SENSORS APPLICATION

2021 JOURNAL OTHER DATABASE CORRESPONDING AUTHOR

67. NDT-DEFECT DETECTION ON CONCRETE USING ULTRASONIC: A REVIEW

JOURNAL OF TOMOGRAPHY SYSTEM & SENSORS APPLICATION

2021 JOURNAL OTHER DATABASE MAIN AUTHOR / CONTACT PERSON IN USIM

68. TOMOGRAPHY SYSTEM TOWARDS THE INDUSTRIAL REVOLUTION 4.0

JOURNAL OF TOMOGRAPHY SYSTEM & SENSORS APPLICATION

2021 JOURNAL OTHER DATABASE MAIN AUTHOR / CONTACT PERSON IN USIM

69. INVESTIGATING THE QUALITY OF MILK USING SPECTROMETRY TECHNIQUE AND SCATTERING THEORY

ENGINEERING, TECHNOLOGY & APPLIED SCIENCE RESEARCH

2021 JOURNAL WOS CO-AUTHOR

PUBLICATION

70. CONCRETE-DEFECT DETECTION USING NEW ULTRASONIC ARRAY

ELEKTRIKA-JOURNAL OF ELECTRICAL ENGINEERING

2021 JOURNAL MYCITE MAIN AUTHOR / CONTACT PERSON IN USIM

71. ANALYSIS OF MILK FROM DIFFERENT SOURCES BASED ON LIGHT PROPAGATION AND RANDOM LASER PROPERTIES

PHOTONICS

2021 JOURNAL JCR CO-AUTHOR

72. AN APPLICATION OF CHARGE-COUPLED DEVICE (CCD) TOMOGRAPHY SYSTEM FOR GEMOLOGICAL INDUSTRY - A REVIEW

INNOVATIVE MANUFACTURING, MECHATRONICS AND MATERIALS FORUM 2021

2021 PROCEEDING NON-INDEX MAIN AUTHOR

73. STUDY ON OPTICAL PROPERTIES OF MILK BASED ON LIGHT PROPAGATION THEORY

INTERNATIONAL CONFERENCE ON BIOMEDICAL ENGINEERING (ICOBE 2021)

2021 PROCEEDING NON-INDEX CO-AUTHOR

74. CONCRETE-DEFECT DETECTION USING NEW ULTRASONIC ARRAY

INTERNATIONAL CONFERENCE ON ELECTRONICS, INSTRUMENTATION AND DEVICES (ICEID 2021)

2021 PROCEEDING NON-INDEX CO-AUTHOR

75. ELECTROCHEMICAL DETECTION OF TRIBUTYRIN USING GOLD NANOPARTICLE FUNCTIONALIZED SCREEN-PRINTED ELECTRODE

STUDENT CONFERENCE ON RESEARCH AND DEVELOPMENT (SCORED)

2021 PROCEEDING NON-INDEX CO-AUTHOR

76. ELECTROCHEMICAL DETECTION OF TRIBUTYRIN USING PRUSSIAN BLUE FUNCTIONALIZED GLASSY CARBON ELECTRODE

IEEE INTERNATIONAL CONFERENCE ON SENSORS & NANOTECHNOLOGY 2021

2021 PROCEEDING NON-INDEX CO-AUTHOR

77. INITIAL STUDY OF INVASIVE APPROACH OF ELECTRICAL CAPACITANCE TOMOGRAPHY FOR IDENTIFYING NON CONDUCTING MEDIUM IN STEEL PIPE APPLICATION

INTERNATIONAL CONFERENCE ON ELECTRONICS, INSTRUMENTATION AND DEVICES (ICEID 2021)

2021 PROCEEDING NON-INDEX CO-AUTHOR

78. QR CODE FOR MATERNAL HEALTH SERVICE

SENSOR AND INSTRUMENTATION SYSTEM SERIES 21

2021 CHAPTER IN BOOK CO-AUTHOR

79. SENSORS / ACTUATORS FOR BIOMEDICAL APPLICATIONS: A REVIEW

SENSOR AND INSTRUMENTATION SYSTEM SERIES 21

2021 CHAPTER IN BOOK CO-AUTHOR

PUBLICATION

80. EARLY WARNING AND MONITORING SYSTEM FOR ELECTRICAL MOTOR

SENSOR & INSTRUMENTATION SYSTEM SERIES 21

2021 CHAPTER IN BOOK CO-AUTHOR

81. SMART FIRE SYSTEM

SENSOR & INSTRUMENTATION SYSTEM SERIES 19

2021 CHAPTER IN BOOK CO-AUTHOR

82. QUANTITATIVE MEASUREMENT OF SMALL-SCALE MALAYSIAN BROILER HOUSE

SENSOR & INSTRUMENTATION SYSTEM SERIES 26

2021 CHAPTER IN BOOK CO-AUTHOR

83. WIRELESS PHOTOELECTRIC SMOKE SENSOR FOR BUILDING SAFETY

SENSOR & INSTRUMENTATION SYSTEM SERIES 26

2021 CHAPTER IN BOOK CO-AUTHOR

84. IOT BASED BLACK BOX FOR VEHICLES

SENSOR & INSTRUMENTATION SYSTEM SERIES 25

2021 CHAPTER IN BOOK CO-AUTHOR

85. A STUDY ON MALAYSIA ATMOSPHERIC EFFECT ON RADIO OVER FREE SPACE OPTIC THROUGH RADIO FREQUENCY SIGNAL AND LIGHT PROPAGATION IN FIBER FOR FUTURE COMMUNICATION DEVELOPMENT

AIP CONFERENCE PROCEEDINGS

2020 JOURNAL SCOPUS CO-AUTHOR

86. THE DEVELOPMENT OF SALAH CHAIR USING ELECTRONIC SENSOR TO ASSIST DISABLED MUSLIMS IN PERFORMING PRAYERS

REKA ELKOMIKA: JURNAL PENGABDIAN KEPADA MASYARAKAT

2020 JOURNAL OTHER DATABASE MAIN AUTHOR

87. A STUDY OF OBJECT TRANSPARENCY VIA CHARGE-COUPLED DEVICE MATHEMATICAL MODELLING ASSESSMENT

MALAYSIAN JOURNAL OF SCIENCE HEALTH & TECHNOLOGY

2020 JOURNAL OTHERS DATABASE CORRESPONDING AUTHOR

88. A STUDY OF OBJECT TRANSPARENCY VIA CHARGE-COUPLED DEVICE MATHEMATICAL MODELLING ASSESSMENT

MALAYSIAN JOURNAL OF SCIENCE HEALTH & TECHNOLOGY

2020 JOURNAL OTHERS DATABASE MAIN AUTHOR

89. INVESTIGATING LIGHT PROPAGATION IN FULL AND SKIMMED MILK BASED ON SPECTROSCOPY AND MONTE CARLO ANALYSIS

JOURNAL OF ENGINEERING AND APPLIED SCIENCE

2020 JOURNAL SCOPUS CO-AUTHOR

90. PRINCIPLES AND CHARACTERISTICS OF RANDOM LASERS AND THEIR APPLICATIONS IN MEDICAL, BIOIMAGING AND BIOSENSING

AIP CONFERENCE PROCEEDINGS

2020 JOURNAL SCOPUS CO-AUTHOR

PUBLICATION

91. CCD OPTICAL TOMOGRAPHY SYSTEM TO DETECT SOLID CONTAMINATION IN CRYSTAL-CLEAR WATER

IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS

2020 JOURNAL SCOPUS MAIN AUTHOR

92. CYBER-PHYSICAL SYSTEM (CPS) APPLICATION_A REVIEW

REKA ELKOMIKA: JURNAL PENGABDIAN KEPADA MASYARAKAT

2020 JOURNAL OTHER DATABASE MAIN AUTHOR

93. A STUDY ON EARLY DETECTION OF SEWER PIPELINE BLOCKAGE USING CCD TOMOGRAPHY APPROACH

IOP CONFERENCE SERIES: EARTH AND ENVIRONMENTAL SCIENCE, 3RD INTERNATIONAL CONFERENCE ON CIVIL AND ENVIRONMENTAL ENGINEERING 18 NOVEMBER 2020

2020 PROCEEDING NON-INDEX MAIN AUTHOR

94. FUZZY LOGIC BASED ADAPTIVE INNOVATION MODEL

SCIENCE AND INFORMATION CONFERENCE

2020 PROCEEDING NON-INDEX CO-AUTHOR

95. PERFORMANCE OF ROFSO OFDM SYSTEM UNDER MALAYSIA CLIMATIC CONDITION FOR WIRELESS COMMUNICATION

KOLOKIUM SISWAZAH FAKULTI SAINS DAN TEKNOLOGI 2020

2020 PROCEEDING NON-INDEX CO-AUTHOR

96. A STUDY OF OBJECT TRANSPARENCY VIA CHARGE-COUPLED DEVICE MATHEMATICAL MODELLING ASSESSMENT

KOLOKIUM SISWAZAH FAKULTI SAINS DAN TEKNOLOGI 2020 SYNERGIZING INNOVATION AND RESEARCH THROUGH SCIENCE AND TECHNOLOGY

2020 PROCEEDING NON-INDEX CORRESPONDING AUTHOR

97. CHARGE-COUPLED DEVICE OPTICAL TOMOGRAPHY SYSTEM FOR AIR BUBBLES DETECTION

2020 BOOK MAIN AUTHOR

98. SMART STREET LIGHTING SYSTEM

SENSOR & INSTRUMENTATION SYSTEM SERIES 17

2020 CHAPTER IN BOOK CO-AUTHOR

99. REAL-TIME MONITORING DRIP IRRIGATION SYSTEM WITH AUTOMATIC WATERING PLANT USING WI-FI MODULE

SENSOR & INSTRUMENTATION SYSTEM SERIES 16

2020 CHAPTER IN BOOK CO-AUTHOR

100. A SIMPLE YET RELIABLE FACIAL EMOTION DETECTION FOR CAMPUS ENVIRONMENT

INTERNATIONAL JOURNAL OF RECENT TECHNOLOGY AND ENGINEERING (IJRTE)

2019 JOURNAL SCOPUS CO-AUTHOR

101. MICROWAVE TOMOGRAPHY SENSING FOR POTENTIAL AGARWOOD TREES IMAGING

COMPUTERS AND ELECTRONICS IN AGRICULTURE

2019 JOURNAL ERA CO-AUTHOR

PUBLICATION

102. PRINCIPLES AND CHARACTERISTICS OF RANDOM LASERS AND THEIR APPLICATIONS IN MEDICAL, BIOIMAGING AND BIOSENSING

THE 2ND INTERNATIONAL CONFERENCE ON APPLIED PHOTONICS AND ELECTRONICS (INCAPE 2019)

2019 PROCEEDING NON-INDEX CO-AUTHOR

103. A STUDY ON MALAYSIA ATMOSPHERIC EFFECT ON RADIO OVER FREE SPACE OPTIC THROUGH RADIO FREQUENCY SIGNAL AND LIGHT PROPAGATION IN FIBER FOR FUTURE COMMUNICATION DEVELOPMENT

THE 2ND INTERNATIONAL CONFERENCE ON APPLIED PHOTONICS AND ELECTRONICS 2019 (INCAPE 2019)

2019 PROCEEDING NON-INDEX CO-AUTHOR

104. ADVANCES IN SUSTAINABLE LIVING: ENGINEERING & BUILT ENVIRONMENT

2019 BOOK EDITOR

105. ADVANCES IN SUSTAINABLE LIVING: ENGINEERING & BUILT ENVIRONMENT

2019 BOOK EDITOR

106. ISLAMIC PERSPECTIVE ON SUSTAINABILITY IN JAPAN

ADVANCES IN SUSTAINABLE LIVING: ENGINEERING & BUILT ENVIRONMENT

2019 CHAPTER IN BOOK CO-AUTHOR

107. ISLAMIC PERSPECTIVE ON RECYCLING IN JAPAN

ADVANCES IN SUSTAINABLE LIVING: ENGINEERING & BUILT ENVIRONMENT

2019 CHAPTER IN BOOK CO-AUTHOR

108. DEVICES IN OPTICS, TOMOGRAPHY AND BIOSENSING

ADVANCES IN SUSTAINABLE LIVING: ENGINEERING & BUILT ENVIRONMENT

2019 CHAPTER IN BOOK MAIN AUTHOR

109. STATISTICAL ANALYSES IN VALIDATING THE PERFORMANCE OF OPTICAL TOMOGRAPHY SYSTEM IN MEASURING OBJECT DIAMETER

EMERGING THEMES IN FUNDAMENTAL AND APPLIED SCIENCES

2019 CHAPTER IN BOOK MAIN AUTHOR

110. PLASMONIC EFFECT ON PERFORMANCE OF RANDOM LASERS

JOURNAL OF COMPUTATIONAL AND THEORETICAL NANOSCIENCE

2018 JOURNAL SCOPUS CO-AUTHOR

111. AUTOMATED FEATURE DESCRIPTION OF RENAL SIZE USING IMAGE PROCESSING

INTERNATIONAL JOURNAL OF INTEGRATED ENGINEERING

2018 JOURNAL SCOPUS CO-AUTHOR

112. AUTOMATIC FEATURE DESCRIPTION OF ENDOMETRIOMA IN ULTRASONIC IMAGES OF THE OVARY

INTERNATIONAL JOURNAL OF INTEGRATED ENGINEERING

2018 JOURNAL SCOPUS CO-AUTHOR

PUBLICATION

113. AUTOMATED FEATURE DESCRIPTION OF FOLLICLE SIZE IN ASSISTED REPRODUCTIVE TREATMENT

INTERNATIONAL JOURNAL OF INTEGRATED ENGINEERING

2018 JOURNAL SCOPUS CO-AUTHOR

114. SIMULATION STUDY OF MICROWAVE IMAGING FOR BRAIN DISEASE DIAGNOSTIC

JOURNAL OF TELECOMMUNICATION, ELECTRONIC AND COMPUTER ENGINEERING

2018 JOURNAL SCOPUS CO-AUTHOR

115. A STUDY OF ELECTRICAL RESISTANCE TOMOGRAPHY ON INHOMOGENEOUS SYSTEM

JOURNAL OF TELECOMMUNICATION, ELECTRONIC AND COMPUTER ENGINEERING

2018 JOURNAL SCOPUS CO-AUTHOR

116. SIMULATION OF INVASIVE ULTRASONIC TOMOGRAPHY FOR THREE PHASE MIXTURE

JOURNAL OF TELECOMMUNICATION, ELECTRONIC AND COMPUTER ENGINEERING

2018 JOURNAL SCOPUS CO-AUTHOR

117. OPTICAL TOMOGRAPHY SYSTEM USING CHARGE-COUPLED DEVICE FOR TRANSPARENT OBJECT DETECTION

INTERNATIONAL JOURNAL OF INTEGRATED ENGINEERING

2018 JOURNAL SCOPUS MAIN AUTHOR

118. DPSK OTDM DEMULTIPLEXING USING FLEXIBLE PULSE CLOCK FROM RAMAN AMPLI?ER-SOLITON COMPRESSOR

JOURNAL OF COMPUTATIONAL AND THEORETICAL NANOSCIENCE

2018 JOURNAL SCOPUS CO-AUTHOR

119. FRONT-END DESIGN FOR NON-INVASIVE ELECTRICAL RESISTANCE TOMOGRAPHY FOR LIQUID COLUMN

JOURNAL OF TELECOMMUNICATION, ELECTRONIC AND COMPUTER ENGINEERING

2018 JOURNAL SCOPUS CO-AUTHOR

120. DESIGN AND FABRICATION OF POLYDIMETHYLSILOXANE BASED LOW COST MICROFLUIDIC FOR ULTRA-FAST DIAGNOSTIC APPLICATIONS

INTERNATIONAL JOURNAL OF INTEGRATED ENGINEERING

2018 JOURNAL SCOPUS CO-AUTHOR

121. ANALYSIS ON THE EFFECT OF SENSOR VIEWS IN IMAGE RECONSTRUCTION PRODUCED BY OPTICAL TOMOGRAPHY SYSTEM USING CHARGE-COUPLED DEVICE

IEEE TRANSACTIONS ON IMAGE PROCESSING

2018 JOURNAL WOS MAIN AUTHOR

122. TOMOGRAPHY VALIDATION METHOD THROUGH STATISTICAL ANALYSIS OF VARIANCE TECHNIQUE

SYMPOSIUM ON INSTRUMENTATION AND SENSING TECHNOLOGY (SOINSET) 2018

2018 PROCEEDING NON-INDEX MAIN AUTHOR

123. CYBER-PHYSICAL SYSTEM (CPS): STATE OF THE ART

IEEE ICE CUBE 2018 : INTERNATIONAL CONFERENCE ON COMPUTING, ELECTRONIC AND ELECTRICAL ENGINEERING

2018 PROCEEDING NON-INDEX MAIN AUTHOR

PUBLICATION

124. HALAL SENSOR- DEVELOPMENT OF OPTICAL TOMOGRAPHY SYSTEM FOR SOLID CONTAMINATION DETECTION

SEMINAR ANTARABANGASA ISLAM DAN SAINS (SAIS) 2018

2018 PROCEEDING NON-INDEX CO-AUTHOR

125. HALAL SENSOR- SOFTWARE DEVELOPMENT OF OPTICAL TOMOGRAPHY SYSTEM FOR SOLID CONTAMINATION IN BEVERAGES

SEMINAR ANTARABANGASA ISLAM DAN SAINS (SAIS) 2018

2018 PROCEEDING NON-INDEX CO-AUTHOR

126. CHARGE-COUPLED DEVICE BASED ON OPTICAL TOMOGRAPHY SYSTEM FOR MONITORING TWO-PHASE FLOW

ELECTRONIC LETTERS

2017 JOURNAL WOS MAIN AUTHOR

127. CHARGE-COUPLED DEVICE BASED ON OPTICAL TOMOGRAPHY SYSTEM FOR MONITORING MULTIPHASE FLOW

INTERNATIONAL JOURNAL OF INTEGRATED ENGINEERING

2017 JOURNAL SCOPUS MAIN AUTHOR

128. CHARGE-COUPLED DEVICE BASED ON OPTICAL TOMOGRAPHY SYSTEM IN DETECTING SOLID AND TRANSPARENT OBJECTS IN NON-FLOWING CRYSTAL CLEAR WATER.

INTERNATIONAL JOURNAL OF LIGHT AND ELECTRON OPTIC, ELSEVIER

2017 JOURNAL WOS MAIN AUTHOR

129. IMAGE RECONSTRUCTION MODELLING FOR OPTICAL TOMOGRAPHY SYSTEM USING CHARGE-COUPLED DEVICE (CCD) LINEAR SENSOR

THE 3RD PUTRAJAYA INTERNATIONAL BUILT ENVIRONMENT, TECHNOLOGY AND ENGINEERING CONFERENCE 2017

2017 PROCEEDING NON-INDEX MAIN AUTHOR

130. STATISTICAL ANALYSES IN VALIDATING THE PERFORMANCE OF OPTICAL TOMOGRAPHY SYSTEM IN MEASURING OBJECT DIAMETER

FUNDAMENTAL SCIENCE CONGRESS 2017 (FSC2017) ON 21ST TILL 22ND NOVEMBER 2017

2017 PROCEEDING NON-INDEX MAIN AUTHOR

131. OPTICAL TOMOGRAPHY SYSTEM USING CHARGE-COUPLED DEVICE FOR TRANSPARENT OBJECT DETECTION

INTERNATIONAL WORKSHOP ON COMPUTED TOMOGRAPHY AND IMAGING TECHNOLOGY

2017 PROCEEDING NON-INDEX MAIN AUTHOR

132. SENSOR AND INSTRUMENTATION SYSTEM

2017 BOOK EDITOR

133. ONLINE OPTICAL TOMOGRAPHY SYSTEM FOR DETECTING AND MEASURING DIAMETER OF SOLID AND TRANSPARENT OBJECTS

IEEE SENSOR JOURNAL

2016 JOURNAL WOS MAIN AUTHOR

PUBLICATION

134. OPTICAL TOMOGRAPHY SYSTEM: APPLICATION OF CHARGE COUPLED DEVICE FOR SOLID AND TRANSPARENT OBJECT DETECTION

JURNAL TEKNOLOGI

2016 JOURNAL SCOPUS MAIN AUTHOR

135. ONLINE OPTICAL TOMOGRAPHY SYSTEM APPLICATION OF CHARGE-COUPLED DEVICE (CCD) FOR OBJECT DETECTION IN CRYSTAL CLEAR WATER.

FLOW MEASUREMENT AND INSTRUMENTATION

2016 JOURNAL WOS MAIN AUTHOR

136. ONLINE OPTICAL TOMOGRAPHY SYSTEM APPLICATION OF CHARGE-COUPLED DEVICE (CCD) FOR OBJECT DETECTION IN CRYSTAL CLEAR WATER

JOURNAL OF INDEPENDENT STUDIES AND RESEARCH ? COMPUTING

2016 JOURNAL OTHER DATABASE MAIN AUTHOR

137. A REVIEW RELATIONS OF OPTICAL TOMOGRAPHY AND OPTICAL COHERANCE TOMOGRAPHY.

JURNAL TEKNOLOGI

2015 JOURNAL SCOPUS CO-AUTHOR

138. SIMULATION STUDY ON NON-HOMOGENOUS SYSTEM OF NON-INVASIVE ERT USING COMSOL MULTIPHYSICS.

JURNAL TEKNOLOGI

2015 JOURNAL SCOPUS CO-AUTHOR

139. SIMULATION STUDY ON ELECTRICAL RESISTANCE TOMOGRAPHY USING METAL WALL FOR BUBBLE DETECTION

JURNAL TEKNOLOGI

2015 JOURNAL SCOPUS CO-AUTHOR

140. INTRODUCING AN APPLICATION OF A CHARGED COUPLED DEVICE (CCD) IN AN OPTICAL TOMOGRAPHY SYSTEM

JURNAL TEKNOLOGI

2015 JOURNAL SCOPUS MAIN AUTHOR

141. ANALYSIS ON THE PERFORMANCE OF LED AND LASER DIODE WITH CHARGE COUPLED DEVICE LINEAR SENSOR MEASURING DIAMETER OF OBJECT.

JURNAL TEKNOLOGI

2015 JOURNAL SCOPUS MAIN AUTHOR

142. A REVIEW OF THE OPTICAL TOMOGRAPHY SYSTEM

JURNAL TEKNOLOGI

2014 JOURNAL SCOPUS MAIN AUTHOR

143. OCTAGON MODELLING USING PARALLEL PROJECTION OF OPTICAL TOMOGRAPHY

JURNAL TEKNOLOGI

2014 JOURNAL SCOPUS CO-AUTHOR

144. PROGRESS IN PROCESS TOMOGRAPHY & INSTRUMENTATION SYSTEM

2014 BOOK CO-EDITOR

PUBLICATION

145. MOST OF RECENT MEDICAL APPLICATIONS BASED ON CAPACITIVE SENSOR

BOOK CHAPTERS- PROCESS TOMOGRAPHY AND INSTRUMENTATION

2014 | CHAPTER IN BOOK | CO-AUTHOR

146. OPTICAL TOMOGRAPHY SYSTEM USING LED AS A LIGHT SOURCE

BOOK CHAPTER-PROCESS TOMOGRAPHY AND INSTRUMENTATION

2014 | CHAPTER IN BOOK | CO-AUTHOR

147. WIRELESS SENSOR NETWORKS IN AIRCRAFT.

BOOK CHAPTER-PROCESS TOMOGRAPHY AND INSTRUMENTATION

2014 | CHAPTER IN BOOK | CO-AUTHOR

148. A REVIEW OF TOMOGRAPHY SYSTEM

JURNAL TEKNOLOGI

2013 | JOURNAL | SCOPUS | MAIN AUTHOR

149. OPTICAL TOMOGRAPHY SYSTEM FOR BUBBLES DETECTION IN LIQUID MEDIUM.

ELECTRICAL ENGINEERING RESEARCH COLLOQUIUM FOR ELECTRONICS, POWER, INSTRUMENTATIONS AND CONTROL AND COMMUNICATIONS

2013 | PROCEEDING | NON-INDEX | MAIN AUTHOR

150. WIRELESS TEMPERATURE SENSORS

BOOK CHAPTER-PROCESS TOMOGRAPHY AND INSTRUMENTATION SYSTEM

2013 | CHAPTER IN BOOK | CO-AUTHOR

CONSULTATION

1. 100 A NEUTRAL LINK TNBL/QA/BHG.1/PC/N/21/0480

TNB LABS SDN. BHD.

2023 | NATIONAL

2. INSULATION PIERCING CONNECTORS FOR CONNECTION OF LOW VOLTAGE BARE CONDUCTOR TO AERIAL BUNDLE CABLE

TNBR

2023 | NATIONAL

3. 100A NEUTRAL LINK

TNB LABS SDN BHD

2022 | NATIONAL

AWARDS/RECOGNITION

1. ANUGERAH PENYELIDIK HARAPAN SAINS, TEKNOLOGI DAN PERUBATAN 2024

2025 UNIVERSITY

2. PENCAPAIAN LAPORAN NILAI PRESTASI TAHUNAN MELEBIHI 95% 2024

2025 UNIVERSITY

3. STAFF CONTOH 2024

2025 UNIVERSITY

4. ANUGERAH MYAKRAB TERBAIK 2024

2025 UNIVERSITY

5. ANUGERAH PENYELIDK TERBAIK FKAB 2025

2025 UNIVERSITY

6. EXTERNAL BOARD MEMBER (AHLI LEMBAGA LUAR)

MALAYSIAN SOCIETY FOR COMPUTED TOMOGRAPHY AND IMAGING TECHNOLOGY

2025 NATIONAL

7. RED-LASER TIME OF FLIGHT (TOF) WATER TURBIDITY MONITORING SYSTEM

INTERNATONAL SCIENCE AND SOCIAL SCIENCE INNOVATION COMPETITION (ISIC VII 2025)

2025 ANTARABANGSA SILVER

8. PHOTOACOUSTIC BASED GOLD AUTHENTICATION SYSTEM FOR DETECTING TUNGSTEN INCLUSIONS: A COMSOL MULTIPHYSICS SIMULATION APPROACH

INTERNATONAL SCIENCE AND SOCIAL SCIENCE INNOVATION COMPETITION (ISIC VII 2025)

2025 ANTARABANGSA BRONZE

9. CONCEPTUAL MODELLING OF GOLD AUTHENTICATION SYSTEM BASED ON ULTRASOUND PROPAGATION ANALYSIS

INNOVATION BANK CHALLENGE 2025

2025 ANTARABANGSA GOLD

10. PHOTOACOUSTIC TOMOGRAPHY CONCEPT FOR EARLY DETECTION OF PREMOLAR CARIES

INNOVATION BANK CHALLENGE 2025

2025 ANTARABANGSA SILVER

11. ARTIFICIAL INTELLIGENCE APPLICATIONS FOR CCS PIPELINE INTEGRITY MONITORING

INNOVATION BANK CHALLENGE 2025

2025 ANTARABANGSA SILVER

12. AI-DRIVEN WELLNESS SCREENING SYSTEM FOR DENTAL CLINIC

INNOVATION BANK CHALLENGE 2025

2025 ANTARABANGSA SILVER

AWARDS/RECOGNITION

13. EXOSKELETAL WRIST REHABILITATION SYSTEM

INNOVATION BANK CHALLENGE 2025

2025 ANTARABANGSA SILVER

14. ANUGERAH PENYELIDIKAN TERBAIK USIM

2024 UNIVERSITY

15. ANUGERAH KREATIVITI DAN INOVASI USIM

2024 UNIVERSITY

16. MUSOLLI COMPANION

4TH INNOVATION BANK CHALLENGE 2024 (IBC 2024)

2024 UNIVERSITI BRONZE

17. CONCEPTUAL MODEL FOR A PORTABLE WRIST AND HAND REHABILITATION SYSTEM FOR STROKE PATIENTS

4TH INNOVATION BANK CHALLENGE 2024 (IBC 2024)

2024 UNIVERSITI SILVER

18. STAFF CONTOH FEBRUARY 2023

2023 UNIVERSITY

19. MOST PROMISING AWARD (IPTA / IPTS / ILK / KV)

2023 NATIONAL

20. ANUGERAH KECEMERLANGAN DAN INOVASI TAHUN 2022

2023 UNIVERSITY

21. CONCEPTUAL MODELLING OF PORTABLE DENTAL DIAGNOSTICS BASED ON ULTRASOUND AND LIGHT PROPAGATION ANALYSIS

Research & Innovation Poster Competition (RIPC Series 1/2023)

2023 KEBANGSAAN GOLD

22. CONCEPTUAL MODELLING OF DUAL-MODE TOMOGRAPHY TECHNIQUE FOR DENTAL DIAGNOSTICS BASED ON ULTRASOUND AND LIGHT PROPAGATION ANALYSIS.

INNOVATION BANK CHALLENGE 2023 (IBC2023)

2023 UNIVERSITI GOLD

23. CONCEPTUAL MODELLING FOR RECYCLING CO2 EMISSION WITH FLEXIBLE THIN FILM SOLAR

SCIENCE AND TECHNOLOGY RESERACH EXPO (SCITEX@20TH FST)

2023 UNIVERSITI BRONZE

24. ULTRASONIC TOMOGRAPHY TECHNIQUE FOR DETECTING FOREIGN OBJECTS BELOW 1 MILIMETRE IN MILK PACKAGING

Pertandingan Inovasi Halal Nasional 2023 (PIHAN'23)

2023 KEBANGSAAN GOLD

AWARDS/RECOGNITION

25. THE POTENTIAL OF .... TOMOGRAPHY (PAT) TECHNIQUE FOR DENTAL IMAGING..

SCIENCE AND TECHNOLOGY RESEARCH EXPO (SCITEX@20TH FST)

2023 UNIVERSITI BRONZE

26. ANNAQLU

PERTANDINGAN REKACIPTA INOVASI INTERNASIONAL & NASIONAL 2022 (PRiIN 2022)

2022 ANTARABANGSA BRONZE

27. QUANTITATIVE GRADING INSPECTION SYSTEM FOR GEMSTONE (QGIS_4G)

PERTANDINGAN REKACIPTA INOVASI INTERNASIONAL & NASIONAL 2022 (PRiIN 2022)

2022 ANTARABANGSA GOLD

28. PITCHING COMPETITION LAKIS@TECH 2021

2021 UNIVERSITY

29. STAF CONTOH BULANAN OGOS 2021

2021 UNIVERSITY

30. WATER TURBIDITY MONITORING SYSTEM USING ELECTRONICS AND OPTICAL SENSING

INNOVATION BANK CHALLENGE (IBC 2021)

2021 UNIVERSITI BRONZE

31. ANUGERAH E-PEMBELAJARAN USIM BAGI KATEGORI KURSUS AKTIF

2020 UNIVERSITY

32. ILLEGAL DUMPING DETECTION SYSTEM

INVENTION, INNOVATION & DESIGN EXPOSITION 2019 (iidex2019)

2019 ANTARABANGSA BRONZE

33. PROGRANT PROPOSAL WRITING FOR RESEARCH GRANTS: PRACTICAL-ORIENTED TRAININGS FOR NEW RESEARCHERS (SEMINAR 1)

2018 INTERNATIONAL

34. STAF CONTOH OGOS 2018

2018 UNIVERSITY

35. DIES PROGRANT PROPOSAL WRITING FOR RESEARCH GRANTS (SEMINAR 2)

2018 INTERNATIONAL

36. DIES PROGRANT PROPOSAL WRITING FOR RESEARCH GRANTS

PROPOSAL WRITING COURSES FOR RESEARCH GRANTS DIES ProGRANT PROPOSAL WRITING FOR RESEARCH GRANTS S

2018 ANTARABANGSA GOLD

37. DAAD DIES PROGRANT PROPOSAL WRITING FOR RESEARCH GRANTS

PROPOSAL WRITING COURSES FOR RESEARCH GRANTS (ProGRANT)

2018 ANTARABANGSA GOLD

AWARDS/RECOGNITION

38. SMART WATER TURBIDITY LEVEL MEASUREMENT WITH IOT ENABLED FOR ENVIRONMENT MONITORING APPLICATION

8th EXPOSITION ON ISLAMIC INNOVATION (i-INOVA) 2018

2018 UNIVERSITI SILVER

39. SPEECH-BASED GENDER RECOGNITION

ISLAMIC INNOVATION STUDENT COMPETITION 2018 (IREKA'18)

2018 UNIVERSITI SILVER

40. A SIMPLE FACE DETECTION METHOD IN CAMPUS ENVIRONMENT TOWARDS A SUSTAINABLE WELL-BEING SOCIETY

8th EXPOSITION ON ISLAMIC INNOVATION (i-INOVA) 2018

2018 UNIVERSITI SILVER

41. PERTANDINGAN IDEA KREATIF SEMPENA SAMBUTAN HARI KUALITI DAN INOVASI USIM TAHUN 2017

2017 UNIVERSITY