Profile Image

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Faculty: Fakulti Kejuruteraan

Dan Alam Bina

SUPERVISION

PhD - Completed: 0, Ongoing: 6 Master - Completed: 3, Ongoing: 4

AREAS OF EXPERTISE

Optics, Non - Linear Optics And Quantum Optics

Quantum Electronics And Lasers

Digital Signal Processing

Biosensor

Photonics Materials

ACADEMIC QUALIFICATION

PhD in Lasers And Quantum Electronics (2016) Master in Electronics (telecommunication) (2007) Bachelor in Electronics (2005)

RESEARCH

1. A NOVEL WATER QUALITY ANOMALIES SENSING AND FORECASTING METHOD USING TIME SERIES REGRESSION FOREST (TSRF) FOR SUSTAINABLE MODERN AGRICULTURE.

2024 GERAN KPT ON GOING MAIN RESEARCHER

2. STUDY OF HEMOGLOBIN AND GLUCOSE USING VISIBLE (VIS) AND NEAR INFRA-RED (NIR)-BASED HEALTHCARE PLATFORM AND DEVICES

2024 GERAN PENYELIDIKAN INDUSTRI ON GOING MAIN RESEARCHER

3. DEVELOPMENT OF A SPECTROMETER FOR DETECTING CHEMICAL CONTAMINANT IN WATER

2023 GERAN PENYELIDIKAN INDUSTRI COMPLETED MAIN RESEARCHER

4. DEVELOPMENT OF INTELLIGENT WATER QUALITY MONITORING SYSTEM FOR AGRICULTURE SECTOR IN MALAYSIA

2022 GERAN SEPADAN AGENSI KERAJAAN ON GOING MAIN

5. TESTING AND DATA COLLECTION OF VITAL SIGNS USING REVA AND MASSIMO DEVICES

2022 GERAN PENYELIDIKAN INDUSTRI COMPLETED MAIN RESEARCHER

RESEARCH

6. DEVELOPMENT OF MICROELECTRONICS SYSTEMS, RELATED TECHNOLOGY AND PRODUCTS FOR VIS NIR-BASED HEALTHCARE PLATFORM AND DEVICES

2022 GERAN PENYELIDIKAN INDUSTRI COMPLETED MAIN RESEARCHER

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

2022 GERAN PENYELIDIKAN INDUSTRI COMPLETED MAIN RESEARCHER

8. FORMULATING A METHOD TO DETECT CONTAMINANT IN WATER BASED ON LIGHT PROPAGATION THEORY FOR CONSERVING NATURAL WATER RESOURCES

2021 GERAN KPT ON GOING MAIN RESEARCHER

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

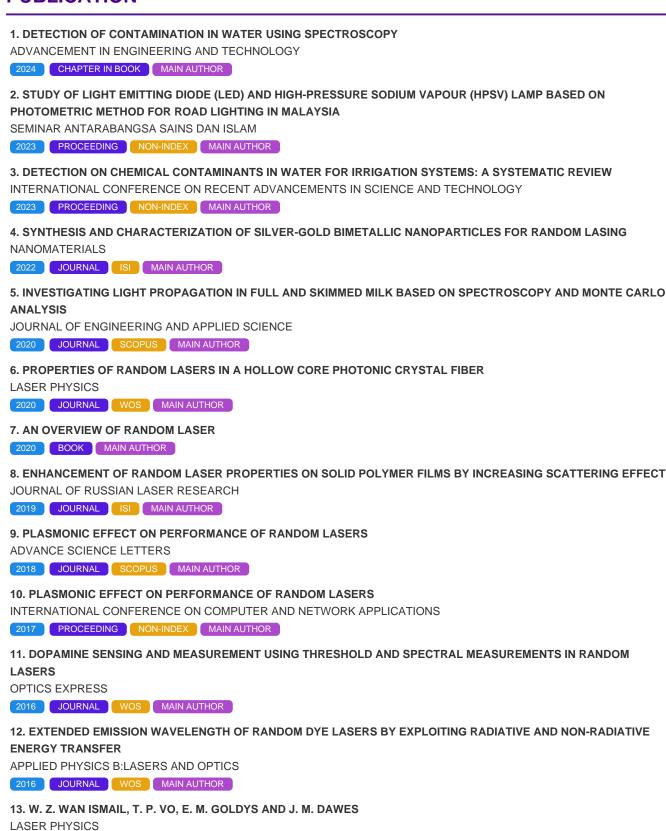
2019 GERAN KPT COMPLETED MAIN RESEARCHER

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

2018 GERAN PENYELIDIKAN USIM COMPLETED MAIN RESEARCHER

PUBLICATION

2015 JOURNAL WOS MAIN AUTHOR



PUBLICATION

14. SPECTRAL AND COHERENCE SIGNATURES OF THRESHOLD IN RANDOM LASERS JOURNAL OF OPTICS



2014 JOURNAL WOS MAIN AUTHOR

AWARDS/RECOGNITION

1. ANUGERAH PENYELIDIKAN TERBAIK

2024 UNIVERSITY

2. ANUGERAH PENYELIDIK CEMERLANG

2024 OTHERS

3. BEST PAPER AWARD

2024 UNIVERSITY

4. BUKU KARYA SUNTINGAN TERBAIK

2024 UNIVERSITY

5. DEVELOPMENT OF INTELLIGENT WATER QUALITY MONITORING SYSTEM FOR AGRICULTURE SECTOR IN MALAYSIA 4TH INNOVATION BANK CHALLENGE 2024 (IBC 2024)

2024 UNIVERSITI BRONZE