



# Assoc. Prof. Ts. Dr. Nor Hazmin Sabri

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## QUALIFICATIONS

- Professional Technologist (Atmospheric Science & Environment), Malaysia Board of Technologist
- Doctor of Philosophy (Physics), Universiti Malaya
- Master of Science (Physics), Universiti Kebangsaan Malaysia
- Bachelor of Science (Hons.) Physics, Universiti Kebangsaan Malaysia

## FIELD OF RESEARCH

- 1 Theoretical Physics
- 2 Electromagnetism
- 3 Computational Astronomy
- 4 Environment

## RESEARCH INTEREST

Electromagnetics, computational astronomy, non-ionizing radiation, atmospheric science, GIS, radio interference, quantum optics, quantum information science, simulation and computational physics, radio astronomy, light-matter interaction.

## RESEARCH PROJECTS

- Non-Ionizing Radiation (NIR) Exposure: Investigation on bacteria as a potential of bio-indicators of soils under high NIR ambient exposure
- Magnetic Data Acquisition System (MAGDAS) Project: The ULF Monitoring data Associated with Earthquake Events using Magneto-metric Analysis
- Weather Effect on Radio Signal for Radio Astronomy Purposes

- Public Electromagnetic Radiations (EMR) Exposure: Mapping The Ambient Non-Ionizing Radiations Exposure Value Of Malaysia Using GIS
- Preparation and evaluation of graphene nanoplatelets as a filler to the mechanical and electromagnetic interference shielding properties of polyethylene (PE) composite
- Pembangunan Modul Pengendalian Khidmat Nasihat Pencegahan Jenayah Syariah Terengganu Berteraskan Konsep Ibad al-Rahman

## EXPERT LINKAGES

- ETC Zurich
- Kyushu University
- Istituto Ricerche Solari Locarno (IRSOL)
- Malaysia Space Agency (MySA)
- Malaysia Nuclear Agency (ANM)
- Institute of Medical Research (IMR)
- Universiti Sultan Zainal Abidin (UniSZA)
- Universiti Malaya (UM)
- Universiti Pendidikan Sultan Idris (UPSI)
- Universiti Teknologi Mara (UiTM)
- Universiti Sains Islam Malaysia (USIM)
- IPG Kampus Sultan Mizan (IPGKSM)

## PROFFESIONAL MEMBERSHIP

- Institute of Physics
- International Astronomical Union
- Institut Fizik Malaysia
- Malaysian Radiation Protection Association
- International Association of Engineers (IAENG)

## GRANTS

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|------------|--|
| Project 1  | : Non-Ionizing Radiation (NIR) Exposure: Investigation on bacteria as a potential of bio-indicators of soils under high NIR ambient exposure |
| Position   | : Project Leader   |
| Grant Name | : TAPE-RG  |
| Status     | : Active   |
| Amount     | : RM20,000   |
|            |  |
| Project 2  | : The ULF Monitoring data Associated with Earthquake Events using Magneto-metric Analysis  |

Position : Co-Researcher  
Grant Name : FRGS  
Status : Active  
Amount : RM138,500

Project 3 : Preparation and evaluation of graphene nanoplatelets as a filler to the mechanical and electromagnetic interference shielding properties of polyethylene (PE) composite

Position : Co-Researcher  
Grant Name : FRGS  
Status : Active  
Amount : RM99,690

Project 4 : Magnetic Data Acquisition System (MAGDAS) Project

Position : Co-Researcher  
Grant Name : Kyushu University (ICSWE)  
Status : Active  
Amount : USD50,000

Project 5 : Pembangunan Modul Pengendalian Khidmat Nasihat Pencegahan Jenayah Syariah Terengganu Berteraskan Konsep Ibad al-Rahman

Position : Co-Researcher  
Grant Name : FRGS-RACER  
Status : Active  
Amount : RM34,712

Project 6 : Coastal Area Electromagnetic Radiations (EMR) Exposure: Mapping The Ambient Non-Ionizing Radiations Exposure Value Of Terengganu Using GIS

Position : Project Leader  
Grant Name : TPM  
Status : Completed  
Amount : RM25,400

Project 7 : Public Electromagnetic Radiations (EMR) Exposure Policy: Mapping The Ambient Non-Ionizing Radiations Exposure Value Of Malaysia Using GIS

Position : Project Leader  
Grant Name : FRGS  
Status : Completed

Amount : RM98,200

Project 8 : Weather Effect on Radio Signal for Radio Astronomy Purposes

Position : Co-Researcher

Grant Name : RACE

Status : Completed

Amount : RM72,000

Project 9 : Transformasi Minda Psikospiritual Remaja Pesisir

Position : Co-Researcher

Grant Name : UCTC

Status : Completed

Amount : RM74,000

Project 10 : Geran Insentif Penyelidikan Akademik

Position : Project Leader

Grant Name : Geran Insentif GOT

Status : Completed

Amount : RM10,000

Project 11 : Theoretical and experimental investigations of lead chalcogenide quantum confined structures for solar cell application exceeding 10% of efficiency

Position : Co-Researcher

Grant Name : FRGS

Status : Completed

Amount : RM112,800

Project 12 : Fabrication of BaTiO<sub>3</sub>-Eu<sup>3+</sup> doped Gd<sub>2</sub>O<sub>3</sub> Vertically Aligned Nanocubes for Photoluminescence Ferroelectric Tunable Applications

Position : Co-Researcher

Grant Name : FRGS-RAGS

Status : Completed

Amount : RM64,000

## AWARDS

### (Award Title, Awarded by, Year)

- Research & Innovation Award (Best Research Group Award), UniSZA, 2019
- Research & Innovation Award (Innovation Award), UniSZA , 2019
- Research & Innovation Award, UniSZA, 2018
- Anugerah Penerbitan Makalah Jurnal Terindeks Tertinggi, FSSM UMT, 2020
- Anugerah Pemindahan Ilmu Berimpak Tinggi, FSSM UMT, 2020
- Anugerah Inovasi Penyelidikan, FSSM UMT, 2020
- Anugerah Penyeliaan Pelajar Siswazah Bergraduat, FSSM UMT, 2020
- Hadiah Setia Bakti, UMT, 2018
- The Best Researcher Award (Group) Science & Technology Category, UniSZA, 2017
- Publication Award, PPSA UMT, 2017
- Research Grant Award, PPSA UMT, 2017
- Innovation Award, PPSA UMT, 2017
- Community Service Award, PPSA UMT, 2017
- Sport/Society Award, PPSA UMT, 2017
- Monthly Best Staf Award, PPSA UMT, 2015
- Anugerah perkhidmatan cemerlang, UMT, 2009
- Dean List, FST UKM, 2001

## INNOVATION AWARDS

### Grand Award/Special Award

1. Prof. Madya Ts. Roslan b. Umar, Prof. Madya Ts. Dr. Nor Hazmin Sabri, Dr. Mohd Hasrul Shuhari, Ts. Dr. Ismahafezi Ismail, Ahmad Najmuddin Zulkeflee, Ahmad Ezzuddin Mohamad, Ahmad Solihin Sira Juddin, Hannah Fatini Md Reshad. 2020. **The JIPA Award for The Best Invention in Design.** Game-based Learning: Kembara Alam Hartawan Falak (AL-KAHF). 31st International Invention, Innovation & Technology Expo 2020 (ITEX2020). 20 – 21 Nov 2020.
2. Prof. Madya Ts. Roslan b. Umar, Prof. Madya Ts. Dr. Nor Hazmin Sabri, Dr. Mohd Hasrul Shuhari, Ts. Dr. Ismahafezi Ismail, Ahmad Najmuddin Zulkeflee, Ahmad Ezzuddin Mohamad, Ahmad Solihin Sira Juddin, Hannah Fatini Md Reshad. 2020. **Inovasi Terbaik.** Permainan Berpapan Astronomi: Kembara Alam Hartawan Falak (AL-KAHF). Pertandingan Inovasi Majlis Dekan Pendidikan Universiti Awam Malaysia (innoMEDC 2020). 11 – 12 Nov 2020.
3. Mohd Khairul Amri Kamaruddin, Mohd Syafi bin Mohd Ridhuan Tee, Siti Nur Dianah Abdul Rahman, Roslan Umar, Hafizan Juahir & Nor Hazmin Sabri. 2018. **Special Award.** EMRpc: Electromagnetic Radiation Phone Cover. Minggu Penyelidikan dan Inovasi, 2018 (MPI2018). 7 – 9 Apr 2018.

## Gold Medal

1. Prof. Madya Ts. Roslan b. Umar, Prof. Madya Ts. Dr. Nor Hazmin Sabri, Dr. Mohd Hasrul Shuhari, Ts. Dr. Ismahafezi Ismail, Ahmad Najmuddin Zulkeflee, Ahmad Ezzuddin Mohamad, Ahmad Solihin Sira Juddin, Hannah Fatini Md Reshad. 2020. Game-based Learning: Kembara Alam Hartawan Falak (AL-KAHF). 31st International Invention, Innovation & Technology Expo 2020 (ITEX2020). 20 – 21 Nov 2020.
2. Nor Hazmin Sabri, Roshidah Mat, Roslan Umar, Azman Omar, Shamsuddin Ahmad, Sharifah Nurul Aisyah Syed Zafar, Marhamah Mohd Shafie. 2020. Signal Strength Prediction System: Predictive RSS Based on Statistic Modelling of Tropical Weather Effect on Telecommunication Signal. Minggu Penyelidikan dan Inovasi, 2020 (MPI2020). 9-11 Mac 2020.
3. Roslan Umar, Nor Hazmin Sabri, Mohd Hasrul Shuhari, Ismahafezi Ismail, Ahmad Ezzuddin Mohamad, Hannan Fatini Md Reshad. 2020. AL-KAHF (Kembara Alam Hartawan Falak). Minggu Penyelidikan dan Inovasi, 2020 (MPI2020). 9-11 Mac 2020.
4. Roslan Umar, Mohammad Khairuddin Ali, Ahmad Azlan AB Aziz, Nor Hazmin Sabri, Muhammad Hasbi Mohd Nor. 2020. SID Kits. Minggu Penyelidikan dan Inovasi, 2020 (MPI2020). 9-11 Mac 2020.
5. Riswadi Azmi, Nor Hazmin Sabri, Rodiah Mustafa, Faizah Ismail, Siti Khatijah Harun, Ahmad Mustaffa Mohamad, Mohammad Zakariyya Mohamad. 2019. MyIhsan: An Innovative System for The Future B40 Community Development and Social Wellbeing. International Conference and Exposition on Inventions by Institutions of Higher Learning 2019 (PECIPTA2019). 22-23 Sept 2019.
6. Mohd Khairul Amri Kamaruddin, Roslan Umar, Nor Hazmin Sabri, Muhammad Hafiz Md Saad, Siti Nur Dianah Abdul Rahman. 2019. EMR Suppressor Design for Phone Cover. Malaysian Technology Expo 2019 (MTE2019). 21 - 23 Feb 2019.
7. Roslan Umar, Nor Hazmin Sabri, Mohd Hasrul Shuhari, Ahmad Ezzuddin Mohamad, Ahmad Najmuddin Zulkeflee, Ahmad Solihin Sirajuddin. 2019. Kembara Alam Hartawan Falak (AL-KAHF). International University Carnival on E-Learning, 2019 (IUCEL2019). 21-22 Aug 2019
8. Roslan Umar, Ahmad Ezzuddin Mohamad, Nor Hazmin Sabri, Nur Amirah Izzah Aminuddin, Najah Nasuha Mat Razali. 2019. Kembara Alam Hartawan Falak (AL-KAHF). UniSZA Carnival on E-Learning, 2019 (UniCEL2019). 25 Jul 2019
9. Riswadi Azmi, Nor Hazmin Sabri, Rodiah Mustafa, Faizah Ismail, Siti Khatijah Harun, Ahmad Mustaffa Mohamad, Mohammad Zakariyya Mohamad. 2019. MYIHSAN: An effective student's financial wellbeing system. 30th International Invention, Innovation & Technology Expo 2019 (ITEX2019). 2-4 May 2019.
10. Nor Hazmin Sabri, Roshidah Mat, Roslan Umar, Azman Omar, Shamsuddin Ahmad. 2019. Smart Weather Signal System (SWSS): Predictive RSS Based on Model of Tropical Weather Effects on UHF Signal Propagation. International Research Conference and Innovation Exhibition 2019 (IRCIE2019), UniKL MITEC. 25 – 27 Nov 2019.
11. Roshidah Mat, Nor Hazmin Sabri, Roslan Umar, Sabri Ahmad, Azman Omar, Shamsuddin Ahmad. 2019. Smart Weather - Signal Prediction; Statistic Modelling of Tropical Weather Predictors on Communication Signal in Terengganu, Karnival Kreativiti dan Inovasi PdPc Peringkat Kebangsaan (KKI2019), IPG Sultan Mizan. 15 – 17 Apr 2019

12. Roslan Umar, Syed Hafiz Syed Omar, Nor Hazmin Sabri, Hafizan Juahir. 2018. I-Tabayyun: Semakan isu tular berkaitan Falak Kontemporari Menerusi Aplikasi Telefon Pintar. International University Carnival on E-Learning, 2018 (IUCEL2018). 11-13 SEPT 2018
13. Roslan Umar, Syed Hafiz Syed Omar, Nor Hazmin Sabri, Hafizan Juahir. 2018. I-Tabayyun: Semakan isu tular berkaitan Falak Kontemporari Menerusi Aplikasi Telefon Pintar. UniSZA Carnival on E-Learning, 2018 (UniCEL2018). 3 May 2018
14. Nur Zulaikha Mohd Afandi, Roslan Umar, Suhailan Mohd Safei, Nor Hazmin Sabri & Christian Monstein. 2018. Auto-Burst: Web-based solar monitoring system for CALLISTO. Minggu Penyelidikan dan Inovasi, 2018 (MPI2018). 7 – 9 Apr 2018 .
15. Mohd Khairul Amri Kamaruddin, Mohd Syafi bin Mohd Ridhuan Tee, Siti Nur Dianah Abdul Rahman, Roslan Umar, Hafizan Juahir & Nor Hazmin Sabri. 2018. EMRpc: Electromagnetic Radiation Phone Cover. Minggu Penyelidikan dan Inovasi, 2018 (MPI2018). 7 – 9 Apr 2018.
16. Roslan Umar, Nor Hazmin Sabri, M. K. A. Kamarudin, Nurul Syafiqah Hasshim & Hafizan Juahir. 2018. MyRFI 2.0: Radio Frequency Interference Map of Peninsular Malaysia. Minggu Penyelidikan dan Inovasi, 2018 (MPI2018). 7 – 9 Apr 2018.
17. Roslan Umar, Syed Hafiz Syed Omar, Nor Hazmin Sabri, Hafizan Juahir. 2018. I-Tabayyun: Semakan isu tular berkaitan Falak Kontemporari Menerusi Aplikasi Telefon Pintar. Minggu Penyelidikan dan Inovasi, 2018 (MPI2018). 7 – 9 Apr 2018.
18. Nur Zulaikha Mohd Afandi, Roslan Umar, Suhailan Mohd Safei, Nor Hazmin Sabri & Christian Monstein. 2018. Burst Finder for e-CALLISTO Spectra. Malaysian Technology Expo 2018 (MTE2018). 22 - 24 Jan 2018.
19. Nur Zulaikha Mohd Afandi , Roslan Umar, Nor Hazmin Sabri, Zainol Abidin Ibrahim, Christian Monstein & Zamri Zainal Abidin. 2017. Burst-Finder: Automated Solar Radio Burst Detection for e-CALLISTO Spectra. The International Conference and Exposition on Invention on Invention (PECIPTA2017). 7 – 9 Oct 2017.
20. Nur Zulaikha Mohd Afandi , Roslan Umar, Nor Hazmin Sabri, Zainol Abidin Ibrahim, Christian Monstein & Zamri Zainal Abidin. 2017. Burst-Finder: Automated Solar Radio Burst Detection for e-CALLISTO Spectra. 28th International Invention, Innovation & Technology Expo 2017 (ITEX2017). 11 – 12 May 2017.
21. A. R. S. N. Dianah, S. N. Hazmin, R. Umar, H. Jaafar, A. N. Dagang, M. T. Ali, A. A. Aziz, M. K. A. Kamarudin, S. K. F. Syaza. 2017. Fabrication of High Performance Antenna in Electromagnetic Radiation Level Measurement. Minggu Penyelidikan dan Inovasi, 2017 (MPI2017). 12 – 13 Apr 2017.
22. Nur Zulaikha Mohd Afandi , Roslan Umar, Nor Hazmin Sabri, Zainol Abidin Ibrahim, Christian Monstein & Zamri Zainal Abidin. 2017. Burst-Finder: Automated Solar Radio Burst Detection for e-CALLISTO Spectra. Minggu Penyelidikan dan Inovasi, 2017 (MPI2017). 12 – 13 Apr 2017.
23. Asmadi Abu Hassan, Wan Mariam Wan Muda, Nor Hazmin Sabri\*. 2015. I-Cane: Intelligent White Cane For Blind. Inovasi UMT 2015. 14 May 2015.

### Silver Medal

1. Prof. Madya Ts. Roslan b. Umar, Prof. Madya Ts. Dr. Nor Hazmin Sabri, Dr. Mohd Hasrul Shuhari, Ts. Dr. Ismahafezi Ismail, Ahmad Najmuddin Zulkeflee, Ahmad Ezzuddin

- Mohamad, Ahmad Solihin Sira Juddin, Hannah Fatini Md Reshad. 2020. Board Game: Kembara Alam Hartawan Falak (AL-KAHF). Bangkok International Intellectual Property, Invention, Innovation and Technology Exposition 2021(IPITEx2021). 26 – 30 May 2021.
2. Hazlina Ahamad Zakeri, Nor Omaima Harun, Fatimah Hashim, Mazidah Mamat, Mohd Aidil Adhha Abdullah, Mohd Al Amin Muhamad Nor, Azila Adnan, Lee Oon Jew, Fazilah Ariffin, Nor Hazmin Sabri, Suhaila Abu Samah. 2020. Sciencepreneur - Transferring Ideas from Science Lab to Community. Minggu Penyelidikan dan Inovasi, 2020 (MPI2020). 9-11 Mac 2020.
  3. Prof. Madya Ts. Roslan b. Umar, Prof. Madya Ts. Dr. Nor Hazmin Sabri, Ts. Dr. Ismahafezi Ismail, Ahmad Najmuddin Zulkeflee, Ahmad Ezzuddin Mohamad, Ahmad Solihin Sira Juddin. 2020. Interactive Constellations (ICONS). UniSZA Carnival on e-Learning 2020 (UniCEL2020). 17 Dec 2020.
  4. Roslan Umar, Nur Zulaikha Mohd Afandi, Nor Hazmin Sabri, Suhailan Safei, Christian Monstein. 2019. E-Solar: Online Solar Alert System for CALLISTO Spectra. Malaysian Technology Expo 2019 (MTE2019). 21 - 23 Feb 2019.
  5. Nor Hazmin Sabri, Riswadi Azmi, Ahmad Mustaffa Mohamad, Rodiah Mustafa, Mohd Syafiq Alias, Mohd Safiuddin Sulong. 2019. AQUAR: Augmented Reality utilization to display Quranic verses. Minggu Penyelidikan dan Inovasi, 2019 (MPI2019). 12 – 13 Mac 2019.
  6. Riswadi Azmi, Nor Hazmin Sabri, Faizah binti Ismail, Siti Khatijah binti Harun, Mohammad Zakariyya bin Mohamad , Mohd Safiuddin Sulong. 2019. Caravanserai@UMT : Implementasi Konsep Wakaf Turki Uthmaniyyah Dalam Keperluan Masyarakat Moden. Minggu Penyelidikan dan Inovasi, 2019 (MPI2019). 12 – 13 Mac 2019.
  7. Mohd Hasrul Shuhari, Wan Hishamudin Wan Jusoh, Roslan Umar, Nor Hazmin Sabri, Muhammad Rashidi Wahab. 2019. Pembinaan Syakhsiyyah 'Ibad al-Rahman Perspektif Al-Ghazali. Minggu Penyelidikan dan Inovasi, 2019 (MPI2019). 12 – 13 Mac 2019.
  8. Nor Hazmin Sabri, Roshidah Mat, Marhamah Mohd Shafie, Sharifah Nurul Aisyah Syed Zafar, Sabri Ahmad & Roslan Umar. 2018. Statistical Modeling of Tropical Weather Effects on Telecommunication Signal at Terengganu. Minggu Penyelidikan dan Inovasi, 2018 (MPI2018). 7 – 9 Apr 2018.
  9. Roslan Umar, Nor Hazmin Sabri, M. K. A. Kamarudin, Nurul Syafiqah Hasshim & Hafizan Juahir. 2018. MyRFI 2.0: Radio Frequency Interference Map of Peninsular Malaysia. 29th International Invention, Innovation & Technology Expo 2018 (ITEX2018). 11 – 12 May 2018
  10. Roslan Umar, Nur Zulaikha Mohd Afandi , Nor Hazmin Sabri, Zainol Abidin Ibrahim, Zamri Zainal Abidin, Christian Monstein. 2017. Burst-Finder: Automated Solar Radio Burst Detection for e-CALLISTO Spectra. Seoul International Invention Fair (SIIF2017). 30 Nov – 3 Dis 2017.
  11. Roslan Umar, Nik Ahmad Firdaus Nik Wan, Mohd Khairul Amri Kamaruddin, Hafizan Juahir, Zainol Abidin Ibrahim, Zamri Zainal Abidin, Nor Hazmin Sabri. 2017. MyRFI Map : Mapping for Radio Frequency Interferences in Peninsular Malaysia. Seoul International Invention Fair (SIIF2017). 30 Nov – 3 Dis 2017
  12. Nor Hazmin Sabri, A. R. S. N. Dianah, , R. Umar, H. Jaafar, A. N. Dagang, M. T. Ali, A. A. Aziz, M. K. A. Kamarudin, S. K. F. Syaza, M. T. Ali & A. A. A. Aziz. 2017. Design and Development of Circular Patch Antenna for Non-Ionizing Radiation Level Measurement



Application. The International Conference and Exposition on Invention (PECIPTA2017). 7 – 9 Oct 2017.

13. Saintis Islam Terengganu: Saintifik & Quranik. 2017. 28th International Invention, Innovation & Technology Expo 2017 (ITEX2017). 11 – 12 May 2017.
14. Roslan Umar, Nik Ahmad Firdaus Nik Wan, Mohd Khairul Amri Kamaruddin, Hafizan Juahir, Zainol Abidin Ibrahim, Zamri Zainal Abidin, Nor Hazmin Sabri. 2017. MyRFI Map : Mapping for Radio Frequency Interferences in Peninsular Malaysia. Minggu Penyelidikan dan Inovasi, 2017 (MPI2017). 12 – 13 Apr 2017.

### Bronze Medal

1. Nor Hazmin Sabri, Roshidah Mat, Roslan Umar, Azman Omar, Shamsuddin Ahmad. 2019. I-Weather Signal Prediction: Effects of Tropical Weather Predictors on Received Signal Strength (RSS) in Ultra High Frequency (UHF) Band. International Innovation, Technology Exhibition and Conference 2019 (i-Tec 2019), Majlis Amanah Rakyat. 24 – 25 Sept 2019.
2. Mohd Khairul Amri Kamaruddin, Mohd Syafi bin Mohd Ridhuan Tee, Siti Nur Dianah Abdul Rahman, Roslan Umar, Hafizan Juahir & Nor Hazmin Sabri. 2018. EMRpc: Electromagnetic Radiation Phone Cover. 29th International Invention, Innovation & Technology Expo 2018 (ITEX2018). 11 – 12 May 2018
3. Roslan Umar, Nik Ahmad Firdaus Nik Wan, Mohd Khairul Amri Kamaruddin, Hafizan Juahir, Zainol Abidin Ibrahim, Zamri Zainal Abidin, Nor Hazmin Sabri. 2017. MyRFI Map : Mapping for Radio Frequency Interferences in Peninsular Malaysia. The International Conference and Exposition on Invention (PECIPTA2017). 7 – 9 Oct 2017.
4. Saintis Islam: Anjakan Cendekiawan Profesional. The International Conference and Exposition on Invention (PECIPTA2017). 7 – 9 Oct 2017.
5. Elit Ines-P: Kecerdasan Intelek, Emosi, Spiritual & Psikomotor. 2017. 28th International Invention, Innovation & Technology Expo 2017 (ITEX2017). 11 – 12 May 2017.
6. Nur Zulaikha Mohd Afandi ,Roslan Umar, Nor Hazmin Sabri, Zainol Abidin Ibrahim, Hafizan Juahir & Zamri Zainal Abidin. 2016. The Development of Automated Monitoring System of Solar Radio Burst Type II, III & IV for CALLISTO Spectra. Minggu Penyelidikan dan Inovasi, UniSZA 2016 (MPI2016). 15 – 17 Mac 2016.
7. Asmadi Abu Hassan, Wan Mariam Wan Muda, Nor Hazmin Sabri\*. 2015. I-Cane: Intelligent White Cane For Blind. National Research Innovation Competition (NRIC). Universiti Sains Malaysia. 12 – 14 May 2015.
8. Shalani Vadivelu, Wan Hafiza Wan Hassan, Nor Hazmin Sabri. Automated Temperature Regulated Sauna System Using PIC. 2009. National Research Innovation Competition (NRIC). Universiti Sains Malaysia. 28 May 2009.

## PUBLICATIONS

### Journal Article

1. S. N. A. Syed Zafar, R. Umar\*, S. N. Hazmin\*, M. H. Jusoh, A. N. Dagang, A. Yoshikawa. 2021. The Effects of Solar Flares and CMEs on Earth's Horizontal Magnetic Field and Solar Wind Parameters During Minimum Solar Cycle of 24. Monthly Notices of the Royal

- Astronomical Society. Vol 504 (3), 3812-3822. doi:10.1093/mnras/stab1161 (ISI Q1 and Scopus Q1)
2. Marhamah Shafie, Roslan Umar, Nor Hazmin Sabri. 2021. Statistical Analysis of Radio Frequency Interference (RFI) Caused by Solar Radiation During Wet and Dry. *Malaysian Journal of Fundamental and Applied Sciences*. Vol 17, 430-436. (Scopus Indexed Q4)
  3. Nor Hazmin Sabri, Riswadi Azmi\*, Roshaliza Taha, Rodiah Mustafa, Faizah Ismail, Siti Khatijah Harun, Ahmad Mustaffa Mohamad, Mohammad Zakariyya Mohamad and Siti Nurhidayah Jasmi. 2021. My Ihsan: Improving Students' financial Aid System For A Bright Future. *ICIC Express Letters, Part B: Applications*. Vol 12(10), 891-898. (Scopus Indexed Q4)
  4. Noor Afiza Badaluddin, Seet Yong Yin, Roslan Umar, Nor Hazmin Sabri, Nurul Syafiqah Hasshim. 2020. Isolation and Characterization of High Ambient Electromagnetic Radiation (EMR) Bacteria. *Malaysian Applied Biology*. Vol 49(4), 165-172. (Scopus Indexed)
  5. Dianah, A.R.S.N., Sabri, N.H., Jaafar, H., Umar, R., Ghazali, M.I.M. And Dagang, A.N. 2020. Public Health Sustainability: Performance Analysis Of Circular Patch Antenna For Non-Ionizing Radiation (NIR) Level Measurement. *Journal of Sustainability Science and Management (JSSM)*. Vol 15(3), 1-10. (Scopus Indexed)
  6. Nur Zulaikha Mohd Afandi, Nor Hazmin Sabri\*, Roslan Umar, Christian Monstein. 2019. Burst Finder: Burst Recognition for E-CALLISTO Spectra. *Indian Journal of Physics (INJP)*. Vol 94(7), 947–957. (ISI and Scopus Indexed)
  7. A. N. Dagang, S. S. Sha'ari, R. Umar, N. H. Sabri. 2019. Multi-Function Adjustable Antenna Using Plasma Radiation for Weather Monitoring. *International Journal of Recent Technology and Engineering (IJRTE)*. Vol 8(3), 5164-5170. (Scopus Indexed)
  8. Sharifah Nurul Aisyah, Nor Hazmin Sabri\*, Roslan Umar dan Zainol Abidin Ibrahim. 2019. Radio frequency interference on nearby radio astronomical lines: Relationship between wind speed and radio signal strength measured at east coast of peninsular Malaysia. *Sains Malaysiana* 48(1), 183–189 (ISI and Scopus Indexed)
  9. Roslan Umar\*, Fatin Natasha Salehudin, Siti Nor Aminah Sedik, Kharunnisa Nabilah Juhari, Mohamad Huzaimy Jusoh, Nurul Syazana Abdul Hamid, Mohd Helmy Hashim, Zahira Mohd Radzi, Asnor Nadirah Ishak, Nor Hazmin Sabri, Wan Zul Adli Wan Mokhtar, Mohd Khairul Amri Kamarudin, Hafizan Juahir, Yoshikawa Akimasa. *Magnetic Data Acquisition System (MAGDAS) Malaysia: Installation and Preliminary Data Analysis at ESERI, UNISZA*. *Indian Journal of Physics*, 93(5), 553–564. (ISI and Scopus Indexed)
  10. Khairul Anwar Rosley, Nor Hazmin Sabri\*, Nurul Syafiqah Hasshim, Roslan Umar, Roha Tukimin, Shamesh Raj A/L Parthasarathy. 2019. Non-Ionizing Radiation Measurement around Four Different Selected Areas. *Indian Journal of Public Health Research & Development (IJHPRD)*. Vol 10(4), 829-833. (Scopus Indexed)
  11. Nurul Syafiqah Hasshim, Roslan Umar\*, Nor Hazmin Sabri, Khairul Anwar Rosley, Roha Tukimin, Shamesh Raj A/L Parthasarathy. 2019. Spatial Model of Non-Ionizing Radiation Exposure around Gong Badak. *Indian Journal of Public Health Research & Development (IJHPRD)*. Vol 10(4), 811-816. (Scopus Indexed)
  12. Roshidah Mat, Nor Hazmin Sabri, Roslan Umar, Intan Nabila binti Azman, Zakaria Sulaiman, Azman Omar. 2019. The Influence of Weather on Communication Signal Strength Quality at KUSZA Observatory. *Jurnal Penyelidikan (Muallim)*. Vol 15(1), 14-28. ISSN 229-8991. (Non-Indexed)

13. R. Umar, S. N. Hazmin\*, M. S. Marhamah, A. A. Aziz, M. A. N. Zulaikha, A. R. S. N. Dianah, M. Roshidah, M. T. Ali, N. H. Abd Rahman, A. N. Dagang, H. Jaafar, M. K. A Kamarudin, M. E. Toriman. 2018. Performance Analysis of Disccone Antenna for Radio Frequency Interference (RFI) Measurement. *International Journal of Engineering & Technology*. Vol 7 (3.14) 333-336. (Scopus indexed)
14. H. N. Syafiqah, S. N. Hazmin\*, R. Umar, A. R. S. N. Dianah, H. Jaafar, M.K.A. Kamarudin, A. N. Dagang and A. I. A. Ilyas. Non-Ionizing Radiation: Exposure Level at UMT and UniSZA Campus. *ASM Sc. J., Special Issue 2018(1)*, 183-194. (Scopus indexed)
15. S.K.F. Syaza, H. Jaafar\*, R. Umar, S.N. Hazmin. 2018. Analysis of Circular Patch Antenna of 2-3GHz for Electromagnetic Applications. *Journal of Telecommunication, Electronic and Computer Engineering (JTEC)*, 10 (1-5), 51-53. (Scopus indexed)
16. Roslan Umar\*, Syed Mohd Hafiz Syed Omar, Nor Hazmin Sabri. Pendekatan Konsep Tabayyun dalam Isu Falak Kontemporari. *BITARA International Journal of Civilizational Studies and Human Sciences*. Vol 1, Issue 2, 127-134. (Others indexed)
17. S. N. Hazmin\*, A. R. S. N. Dianah, R. Umar, A. N. Dagang, M. K. A. Kamarudin and H. Jaafar. 2018. Non-Ionizing Radiation Exposure: Electric Field Strength Measurement around Selected Base Stations in Kuala Nerus. *Journal of Fundamental and Applied Sciences*, 10 (1S), 52-65. (Others indexed)
18. A. R. S. N. Dianah, S. N. Hazmin\*, R. Umar, H. Jaafar, M. K. A. Kamarudin, A. N. Dagang, H. N. Syafiqah. 2018. Spatial Model of Public Non-Ionizing Radiation Exposure on Selected Base Station around Kuala Nerus. *Journal of Fundamental and Applied Sciences*, 10 (1S), 523-540 (Others indexed)
19. N.Z.M. Afandi, S.N.Hazmin, R. Umar\*, A.N.Ishak. 2018. Automated Solar Radio Burst Detection On Radio Spectrum: A Review Of Techniques In Image Processing. *Journal of Fundamental and Applied Sciences*, 10 (1S), 249-267 (Others indexed)
20. S. N. A. Syed Zafar, S. N. Hazmin, R. Mat, M. S. Marhamah and Roslan Umar\*. 2018. Wind Speed on Ultra High Frequency (UHF) Of Radio Signal. *Journal of Fundamental and Applied Sciences*, 10 (1S), 278-287 (Others indexed)
21. M.S. Marhamah, R. Umar\*, S. N. Hazmin, S. N. A. S. Zafar and R. Mat. 2018. The Influence of Solar Radiation on Radio Signal At UHF Band. *Journal of Fundamental and Applied Sciences*, 10 (1S), 268-277. (Others indexed)
22. A.R.S.N. Dianah, R. Umar, M.K.A. Kamarudin, A.N. Dagang & S.N. Hazmin\*. 2017. Exposure Level from Selected Base Station Tower Around Kuala Nerus: A Preliminary Analysis *Journal of Fundamental and Applied Sciences*, 9 (5S), 367-380. (WoS ESCI indexed)
23. R. Umar, Z.Z. Abidin, Z.A. Ibrahim, M.K.A. Kamarudin, S.N. Hazmin, A. Endut, H. Juahir\*. 2017. Multi-Criteria Decision Analysis Integrated With GIS For Radio Astronomical Observatory Site Selection In Peninsular Of Malaysia. *Journal of Fundamental and Applied Sciences*, 9 (5S), 381-393. (WoS ESCI indexed)
24. Marhamah Mohd Shafie, Roslan Umar\*, Nor Hazmin Sabri, Nur Zulaikha Mohd Afandi, Zainol Abidin Ibrahim. 2017. Radio Environment Analysis at Balai Cerap KUSZA for Solar Burst Study. *International Journal on Advanced Science, Engineering and Information Technology*, 7 (4), 1441-1447. (Scopus indexed)
25. Sharifah Nurul Aisyah Syed Zafar, Nor Hazmin Sabri\*, Zainol Abidin Ibrahim, Mohd Khairul Amri Kamarudin and Roslan Umar. 2017. Spectrum Monitoring: Radio Frequency

- Interferences (RFI) Profile for Hydroxyl (OH) Lines Window. *Journal of Fundamental and Applied Sciences*, 9(2S), 147-156. (WoS ESCI indexed)
26. Siti Nur Dianah Abdul Rahman, Nor Hazmin Sabri\*, Roslan Umar, Mohd Khairul Amri Kamarudin, Ahmad Nazri Dagang. 2017. A Review on Electromagnetics (EM) Exposure Measurement Technique From Base Station. *Journal of Fundamental and Applied Sciences*, 9(2S), 182-198. (WoS ESCI indexed)
  27. Fatin Syaza Syariff Khan, Roslan Umar\*, Nor Hazmin Sabri, Mohd Khairul Amri Kamarudin, Azmi Hassan, Hafizan Juahir, 2017. Non-ionizing Radiation as Threat in Daily Life. *Journal of Fundamental and Applied Sciences*, 9(2S), 308-316. (WoS ESCI indexed)
  28. Sharifah Nurul Aisyah Syed Zafar, Roslan Umar\*, Nor Hazmin Sabri, Zainol Abidin Ibrahim, Mohd Khairul Amri Kamarudin & Azizah Endut. 2017. Determination of Radio Environmental Level in Hydrogen (HI) Band Spectrum by Using Kurtosis Analysis. *International Journal on Advanced Science, Engineering and Information Technology*, 7(3) 1069-1075 (Scopus indexed)
  29. Nur Zulaikha Mohd Afandi, Roslan Umar\*, Zainol Abidin Ibrahim, Nor Hazmin Sabri, Marhamah Mohd Shafie. 2017. Influence of Partial Solar Eclipse on The Radio Signal during 9 March 2016. *International Journal on Advanced Science, Engineering and Information Technology*, 7(2) 688-694 (Scopus indexed)
  30. Mohd Redzuan Tahar, Farahana Kamarudin, Roslan Umar\*, Mohd Khairul Amri Kamarudin, Nor Hazmin Sabri, Karzaman Ahmad, Sobri Abdul Rahim and Mohd Sharul Aikal Baharim. 2017. Spatial Model of Sky Brightness Magnitude in Langkawi Island, Malaysia. *Research in Astronomy and Astrophysics*, 17(4) 37(10pp) (ISI and Scopus indexed)
  31. Nur Zulaikha Mohd Afandi, Roslan Umar\*, Nor Hazmin Sabri, Zamri Zainal Abidin, Zainol Abidin Ibrahim, Asnor Nadirah Ishak, Zulia Kurnia Dewi Nurlisman, and Christian Monstein. 2017. Identification of Solar Radio Burst Type II and Type III for Space Weather Monitoring. *Advanced Science Letters*, 23(2) 1281-1284. (Scopus indexed)
  32. Nor Hazmin Sabri\*, Roslan Umar, Marhamah Mohd Shafie, Sharifah Nurul Aisyah Syed Zafar, Roshidah Mat, Sabri Ahmad, and Zainol Abidin Ibrahim. 2017. Correlation Analysis of Tropical Rainforest Climate Effect on Radio Signal Strength at KUSZA Observatory, Terengganu. *Advanced Science Letters*, 23(2) 1268-1271. (Scopus indexed)
  33. Roshidah Mat, Marhamah Mohd Shafie, Sabri Ahmad, Roslan Umar, Yew Been Seok, Nor Hazmin Sabri\*. 2016. Temperature Effect on the Tropospheric Radio Signal Strength for UHF Band at Terengganu, Malaysia. *International Journal on Advanced Science, Engineering and Information Technology*, 6(5) 770-774. (Scopus indexed)
  34. Nur Zulaikha Mohd Afandi, Zamri Zainal Abidin, Roslan Umar\*, Nor Hazmin Sabri, Zainol Abidin Ibrahim, Christian Monstein. 2016. Implementation of Frequency Drift for Identification of Solar Radio Burst Type II. *International Journal on Advanced Science, Engineering and Information Technology*, 6(5) 775-780. (Scopus indexed)
  35. Roslan Umar\*, Nor Hazmin Sabri, Zamri Zainal Abidin, Zainol Abidin Ibrahim. 2015. How to Deal with Radio Astronomy Interference. *Publication of Korean Astronomical Society*, 30, 691-693. (Others indexed)
  36. Nor Hazmin Sabri\*, Roslan Umar, Sharifah Nurul Aisyah Syed Zafar, Zainol Abidin Ibrahim and Wan Zul Adli Wan Mokhtar. 2015. Radio Frequency Interference: The Effect Of Ambient Carbon Dioxide (CO<sub>2</sub>), Concentration On Radio Signal For Radio Astronomy Purposes. *Malaysian Journal of Analytical Sciences*, 19(5), 1065 - 1071. (Scopus indexed)

37. Roslan Umar\*, Nor Hazmin Sabri, Shahirah Syafa Sulan, Atiq Wahidah Azlan, Zainol Abidin Ibrahim and Wan Zul Adli Wan Mokhtar. 2015. Radio Frequency Interference: The Study Of Rain Effect On Radio Signal Attenuation. *Malaysian Journal of Analytical Sciences*, 19(5), 1093 - 1098. (Scopus indexed)
38. Nor Hazmin Sabri\*, Atiq Wahidah Azlan, Roslan Umar, Shahirah Syafa Sulan, Zainol Abidin Ibrahim and Wan Zul Adli Wan Mokhtar. 2015. The Effect Of Solar Radiation On Radio Signal For Radio Astronomy Purposes. *Malaysian Journal of Analytical Sciences*, 19(6), 1374 - 1381. (Scopus indexed)
39. Roslan Umar\*, Nor Hazmin Sabri, Zainol Abidin Ibrahim, Zamri Zainal Abidin, Hafizan Juahir, Mohd Ekhwan Toriman, Azman Azid and Mohd Khairul Amri Kamarudin. 2015. Measurement technique in radio frequency interference (RFI) study for radio astronomy purposes. *Malaysian Journal of Analytical Sciences*, 19(5), 960 - 965. (Scopus indexed)
40. Nor Hazmin Sabri\*, Roslan Umar, Wan Zul Adli Wan Mokhtar, Zamri Zainal Abidin, Zainol Abidin Ibrahim, Azman Azid, Hafizan Juahir, Mohd Ekhwan Toriman and Mohd Khairul Amri Kamaruddin. 2015. Preliminary study of vehicular traffic effect on radio signal for radio. *Jurnal Teknologi*. 75, 313-318. (Scopus indexed)
41. Roslan Umar\*, Nor Hazmin Sabri, Zamri Zainal Abidin, Zainol Abidin Ibrahim, Azman Azid, Hafizan Juahir, Mohd Ekhwan Toriman and Mohd Khairul Amri Kamaruddin. 2015. Preliminary Study of Radio Astronomical Lines Effect of Rain Below 2.9 GHz. *Jurnal Teknologi*, 75, 7-11. (Scopus indexed)
42. S. Ainisyahida, S. N. Hazmin, C. H. Raymond Ooi. 2013 Quantum Entanglement Criteria. *Journal of Modern Optics*. 60(7), 589-597. Taylor and Francis. ISSN 1362-3044. Doi:10.1080/09500340.2013.796016. (ISI indexed)
43. C. H. Raymond Ooi, S. N. Hazmin, Sudha Singh. 2012. Nonclassical Dynamics with Time- and Intensity-Dependent Coupling. *Quantum Information Processing*. 12(6), 2103-2120. Springer US. ISSN 1573-1332. Doi:10.1007/s11128-012-0512-6. (ISI indexed)

### Conference Publication

1. S N A Syed Zafar, S N Hazmin, M H Jusoh, A N Dagang, M A M Adzni and R Umar. 2021. Behaviour of Geomagnetic storm, horizontal geomagnetic field and solar wind parameters during solar flare and CMEs event. *Journal of Physics: IOP Conf. Series 1768 (2021) 012003*. (WoS ESCI and Scopus Q3 indexed)
2. S N A Syed Zafar, S N Hazmin, M H Jusoh, A N Dagang, M A M Adzni and R Umar. 2021. Behaviour of Geomagnetic storm, horizontal geomagnetic field and solar wind parameters during solar flare and CMEs event. *Journal of Physics: IOP Conf. Series 1768 (2021) 012003*. (WoS ESCI and Scopus indexed)
3. Roshidah Mat, Nor Hazmin Sabri, Roslan Umar, Sabri Ahmad, Sharifah Nurul Aisyah Syed Zafar, Azman Omar, Wan Azani Mustafa. 2020. Effect of Humidity on Tropospheric Received Signal Strength (RSS) in Ultra-High Frequency (UHF) Band. *Journal of Physics: IOP Conf. Series 1529 (2020) 042048*. (WoS ESCI and Scopus indexed)
4. Roshidah Mat, Nor Hazmin Sabri, Roslan Umar, Sabri Ahmad, Azman Omar. 2020. Statistical Analysis Of Environmental Factors Affecting The UHF Radio Signals Quality In Terengganu. *Proceeding of the ICTE'20: International Conference Teacher Education (Vol I)*. Kelantan. eISBN:978-967-14697-9-8. (Non-indexed)

5. Nor Hazmin Sabri, Sharifah Nurul Aisyah Syed Zafar, Roslan Umar and Roshidah Mat. 2019. Northeast Monsoon Effect on Ultra High Frequency (UHF) Signal Attenuation at Kusza. *Journal of Physics: IOP Conf. Series 1152 (2019) 012009*. (WoS ESCI and Scopus indexed)
6. Asnor Nadirah Ishak, Nur Zulaikha Mohd Afandi, Roslan Umar, Nor Hazmin Sabri, Zahira Mohd Radzi, Asnor Juraiza Ishak, Radial Anwar. 2019. Solar Radio Burst in National Space Agency of Malaysia (ANGKASA). *Journal of Physics: IOP Conf. Series 1152 (2019) 012005*. (WoS ESCI and Scopus indexed)
7. Roslan Umar\*, Syed Mohd Hafiz Syed Omar, Hafizan Juahir, Nor Hazmin Sabri, Nurul Syafiqah Hasshim, Siti Nur Dianah Abdul Rahman. i- Tabayyun:Semakan Isu Tular Berkaitan Falak Kontemporari Menerusi Aplikasi Telefon Pintar. *Proceedings Of The International University Carnival On E-Learning (Iucel) 2018*. ISBN: 9789672027843. (Non-indexed)
8. A R S N Dianah, S N Hazmin\*, H N Syafiqah, M K A Kamarudin, R Umar. 2018. Relationship between Non-Ionizing Radiation (NIR) Exposure Level and the Base Station Tower Installation around Kuala Nerus. *Proceeding of International Fundamentum Science Symposium. IOP Conference Series: Materials Science and Engineering. 440 (2018) 012040*. (Scopus indexed)
9. R Mat, S N Hazmin\*, R Umar, S Ahmad, S N A S Zafar and M S Marhamah. 2018. The Modelling of Tropical Weather Effects on Ultra-High Frequency (UHF) Radio Signals Using SmartPLS. *Proceeding of International Fundamentum Science Symposium. IOP Conference Series: Materials Science and Engineering. 440 (2018) 012041*. (Scopus indexed)
10. S.N. Hazmin, A.R.S.N. Dianah, M.K.A. Kamarudin, R. Umar\*, and H.N. Syafiqah. Non-Ionizing Radiation (NIR) Exposure Map Development Using GIS for Gong Badak, Terengganu, Malaysia. 2018. *Proceeding of 4th Engineering Science and Technology International Conference. MATEC Web of Conferences. 248, 05001 pp1-5*. (Scopus indexed)
11. Roshidah Mat, Nor Hazmin Sabri, Roslan Umar, Sabri Ahmad, Marhamah Mohd Shafie & Sharifah Nurul Aisyah Syed Zafar. 2018. Impact Of Weather Predictors On Signals Transmission In Communication : A Statistical Modelling Approach Using SmartPLS. *Proceeding of Seminar PdPc Abad ke-21 dan Karnival Inovasi Peringkat Kebangsaan 2018. Terengganu*. ISBN: 978-967-15992-02-04. (Non-indexed)
12. Asnor Nadirah Ishak, Zulia Kurnia Dewi Nurlisman, Roslan Umar, Nor Hazmin Sabri, Zety Sharizat Hamidi, Nur Zulaikha Mohd Afandi, Marhamah Mohd Shafie, Christian Monstein. Preliminary Analysis Of Radio Frequency Interference (RFI) Using Callisto At Banting, Selangor, Malaysia. *Proceeding of 4th International Conference on Researches in Science and Technology (ICRST). MATTER: International Journal of Science and Technology. ISSN: 2454-5880*. (Scopus indexed)
13. S. N. Hazmin & C. H. Raymond Ooi. 2012. The Study of Nonclassical Optical Properties of Light in Low Dimensional Structures. *Proceeding of UMT Postgraduate Seminar 2012. Kuala Lumpur*. ISBN: 978-967-5366-88-8. (Non-indexed)
14. Y.C. Ang, N.H. Sabri and Wan Hafiza Wan Hassan. 2009. Design and Control of a Small Mobile Robot: Robotic Vacuum Machine. *Proceeding of International Advanced Technology Congress 2009 (ATCi 2009). Kuala Lumpur*. ISBN: 978-983-42758-4-6. (Non-indexed)

15. Siti 'Aishah Mohamad, N.H Sabri, Wan Hafiza Wan Hassan. 2009. Application of RFID Technique in Students' Attendance System. Proceedings of The Joint Conference, Second International Conference and Workshops on Basic and Applied Sciences & Regional Annual Fundamental Science Seminar 2009 (ICORAFSS2009). Johor Bahru. ISBN : 978-983-9805-74-1. (Non-indexed)

### Other Outputs

[Thesis, manuscript, books, reports, etc.]

### Book

1. Riswadi Azmi, Nor Hazmin Sabri, Rodiah Mustafa. 2021. Islam dan Kelestarian Alam. Penerbit UMT. ISBN 9789672939344
2. Riswadi Azmi, Nor Hazmin Sabri, Rodiah Mustafa, Ahmad Mustaffa Mohamad. 2020. Ulul Albab: Menyingkap Keajaiban Islam. Penerbit UMT. ISBN 9789672417354

### Chapter in Book

1. Nor Hazmin Sabri & Rodiah Mustafa. 2021. 'Akhlaq orang mukmin terhadap alam sekitar' in 'Islam dan Kelestarian Alam.' Editor: Riswadi Azmi, Nor Hazmin Sabri, Rodiah Mustafa. Penerbit UMT. ISBN 9789672939344
2. Roslan Umar, Nor Hazmin Sabri, Syed Mohd Hafiz Syed Omar & Mohammad Badrul Hafiz Nasri. 2021. 'Konsep tabayyun dalam isu berkaitan falak: Analisis menurut nas dan teori sains.' in 'Islam dan Kelestarian Alam.' Editor: Riswadi Azmi, Nor Hazmin Sabri, Rodiah Mustafa. Penerbit UMT. ISBN 9789672939344
3. Nor Hazmin Sabri & Rodiah Mustafa. 2020. 'Kepentingan Integrasi Islam dan Sains.' In 'Ulul Albab: Menyingkap Keajaiban Islam.' Editor: Riswadi Azmi, Nor Hazmin Sabri, Rodiah Mustafa, Ahmad Mustaffa Mohamad. Penerbit UMT. ISBN 9789672417354
4. Mohd Lazim Abdullah, Sabri Ahmad, Nor Hazmin Sabri, Zamzahaila Mohd Zin, Wan Hafiza Wan Hassan. 2016. 'Pengembangan Daya Fikir Intelektual.' In 'Saintis Islam: Anjakan Cendekiawan Professional.' Editor: Syarifah Marzety Adibah Al-Sayed Mohamad & Mohd Ikmar Nizam Mohamad Isa. Penerbit UMT. ISBN 9789670962160
5. Mazidah Mamat, Maisara Abd Kadir, Faizatul Shimal Mehamod, Nor Hazmin Sabri, Mohd Sabri Mohd Ghazali, Faridah Mohamad, Fatimah Hashim, Azila Adnan, Ilyani Abdullah, Fatimah Noor Harun, Mohd Ikmar Nizam Mohamad Isa. 2016. 'Penerokaan Sains dan Matematik.' In 'Saintis Islam: Anjakan Cendekiawan Professional.' Editor: Syarifah Marzety Adibah Al-Sayed Mohamad & Mohd Ikmar Nizam Mohamad Isa. Penerbit UMT. ISBN 9789670962160

### Involvement/Publications in Media

1. Nor Hazmin Sabri, Rodiah Mustafa & Ahmad Mustaffa Mohamad. 2018. PISM Sebar Ilmu Astronomi. Buletin Infokus Jun 2018 Bil. 63. Penerbit UMT. ISSN 1675-2139
2. Nor Hazmin Sabri & Rodiah Mustafa. 2018. UMT-MAIDAM Menterai MOA Wakaf Ilmu. Buletin Infokus Mac 2019 Bil. 66. Penerbit UMT. ISSN 1675-2139
3. Nor Hazmin Sabri. 2018. Sains Teknologi dan Islam. Majalah Al Busyra Edisi 2. Pusat Islam Sultan Mahmud UMT. ISSN 2550-1666

4. Nor Hazmin Sabri. 2017. Tanya Saintis-Mampukah Saya Berlari Sepantas Usain Bolt. Malajah Sains. <https://www.majalahsains.com/mampukah-saya-berlari-sepantas-usain-bolt/>
5. Shalani Vadivelu, Wan Hafiza Wan Hassan, Nor Hazmin Sabri. 2010. Automated Temperature Regulated Sauna System Using PIC, Sci-Tech Discovery.
6. Nor Hazmin Sabri. 2010. Program Selangkah ke Arah Kecemerlangan Fizik 2010. Buletin Infokus Dec 2010. Penerbit UMT.
7. Nor Hazmin Sabri. 2009. Kem Pemantapan Kendiri FST 2009. Buletin Infokus Jun 2009, Penerbit UMT.

## Thesis

1. Nor Hazmin Sabri, Nonclassical Properties of Light in Atom-Cavity Interaction Scheme with Time- and Intensity-Dependent Coupling, Ph.D Thesis, 2013, Physics, Department, Faculty of Science, University Malaya
2. Nor Hazmin Sabri, Development of Interactive Quantum Mechanics Simulation Module Using Java Applets, Master Thesis, 2005, Jabatan Fizik, Fakulti Sains dan Teknologi, Universiti Kebangsaan Malaysia.
3. Nor Hazmin Sabri, Development of Applets and Learning Websites for Electric Field to Assist Physics Teaching and Learning Process, Final Year Project Report, 2002, Jabatan Fizik, Fakulti Sains dan Teknologi, Universiti Kebangsaan Malaysia

## SUPERVISION

### Doctor of Philosophy Degree

Thesis Title : The Development of Automated Warning System of Solar Radio Burst Type II, III & IV for CALLISTO Spectra  
 Student Name : Nur Zulaikha Mohd Afandi  
 Role : Co- Supervisor  
 Status : Graduated

Thesis Title : Tropical Weather Effect On The Tropospheric Radio Wave Propagation Below 9 Ghz  
 Student Name : Roshidah bt Mat  
 Role : Main Supervisor  
 Status : In Progress

Thesis Title : ULF Monitoring for Earthquake using Magnetic Data Acquisition System (MAGDAS)  
 Student Name : Sharifah Nurul Aisyah Syed Zafar  
 Role : Co- Supervisor  
 Status : In Progress



Thesis Title : Radio Astronomical Lines Measurement Using Adjustable Discone Antenna.  
Student Name : Marhamah by Mohd Shafie  
Role : Co- Supervisor  
Status : In Progress

### Master Degree

Thesis Title : Coastal Area Electromagnetic Radiations (EMR) Exposure: Mapping The Ambient Non-Ionizing Radiations Exposure Value Of Terengganu Using GIS

Student Name : Siti Nur Dianah Abdul Rahman  
Role : Main Supervisor  
Status : Graduated

Thesis Title : Seasonal Wind Effect on Radio Signal Attenuation in Terengganu  
Student Name : Sharifah Nurul Aisyah Syed Zafar  
Role : Co- Supervisor  
Status : Graduated

Thesis Title : Solar Radiation and Solar Energy effect on Radio Signal Attenuation  
Student Name : Marhamah by Mohd Shafie  
Role : Co- Supervisor  
Status : Graduated

Thesis Title : Measurement Of Electromagnetic Exposure around Commercial Area of Terengganu  
Student Name : Khairul Anwar Rosley  
Role : Main Supervisor  
Status : In Progress

Thesis Title : Measurement Of Electromagnetic Field Strength Around Kuala Nerus  
Student Name : Nurul Syafiqah Binti Hasshim  
Role : Co- Supervisor  
Status : In Progress

### COURSE TAUGHT

- Quantum Mechanics, Undergraduate.

- Fundamental Of Physics, Undergraduate.
- Thermal And Modern Physics, Undergraduate.
- Electricity And Magnetism, Undergraduate.
- Computational Physics, Undergraduate.
- Electromagnetism, Undergraduate.
- Introductory Mechanics, Undergraduate.
- Vibration, Wave & Optics, Undergraduate.
- Fundamental Electronics, Undergraduate.
- Thermodynamics, Undergraduate.

## ACADEMIC & MANAGEMENT LEADERSHIP

- Expert Panel for R&D project fund, Ministry of Science, Technology and Innovation (MOSTI), 2021-2023
- Evaluator panel of Technology and Technical Accreditation Council (TTAC) Malaysia Board of Technologist (MBOT), 2020-2022.
- Deputy Director (Research & Community), Pusat Islam Sultan Mahmud, 2017-2019.
- Associate Editor, Journal of Sustainability Science and Management, 2015-2017.
- Technical Editor, Malaysian Journal of Applied Sciences, 2019-2020.
- Associate Fellow, Pusat Islam Sultan Mahmud, UMT, 2016-2018.

## EXPERT CONTRIBUTION: INVITED TALK/WORKSHOP

1. Topic: Perintah Dasar pada LATEX  
Event: Bengkel Latex dan Maklumat Sistem Geografi  
Organizer: Institut Penyelidikan Alam Sekitar Pantai Timur (ESERI), UniSZA
2. Topic: Perlaksanaan Inovasi dalam P&P  
Event: Hari Inovasi Pengajaran dan Pembelajaran (STEM)  
Organizer: STEM, UMT
3. Topic: Penulisan Artikel Menggunakan LATEX  
Event: Bengkel Penulisan Artikel Jurnal Berindeks Scopus  
Organizer: Fakulti Sains Sosial Gunaan, UniSZA
4. Topic: Tatacara Pengisian dan Permohonan Hak Cipta

Event: Bengkel Permohonan Harta Intelek (Copyright)

Organizer: UMT

5. Topic: Electromagnetic Studies: Basic and Applications  
Event: Bengkel Elektromagnet: Astronomi dan Kajian Radio  
Organizer: Institut Penyelidikan Alam Sekitar Pantai Timur (ESERI), UniSZA
6. Topic: The Theory of Electromagnetic Waves and Potential Research  
Event: Bengkel Analisis Data Astronomi (Optikal Dan Radio)  
Organizer: Institut Penyelidikan Alam Sekitar Pantai Timur (ESERI), UniSZA
7. Topic: Penulisan artikel menggunakan LATEX  
Event: Bengkel Latex dan Maklumat Sistem Geografi  
Organizer: Institut Penyelidikan Alam Sekitar Pantai Timur (ESERI), UniSZA
8. Topic: Non-Ionizing Radiation: Are Cell Phones Safe?  
Event: Scholarpedia Talk (Siri 5) PPSA  
Organizer: PPSA, UMT
9. Topic: Nonclassical Properties of Light in Atom-Cavity Interaction Scheme with Time- and Intensity-Dependent Coupling  
Event: PhD Seminar  
Organizer: Physics Program, Fac of Science, UM
10. Topic: Research in Electromagnetics  
Event: FSSM Webinar Series  
Organizer: Fakulti Sains dan Sekitaran Marin, UMT
11. Topic: Electromagnetics Research: Radio Frequency Studies Below 9GHz  
Event: Wacana Fizik  
Organizer: Prog. Nanofizik, PPSA, UMT

## INTELLECTUAL PROPERTIES

1. Al-KAHF : Kembara Alam Hartawan Falak, Trademark, TM2020019652 Class 28, 2020
2. Interactive Constellations (ICONS), Copyright, LY2020006482, 2020
3. Manual penghasilan bedak sejuk mulberi-pandan wangi, Copyright, LY2020001152, 2020
4. Keselamatan siber: soal selidik bagi mengenalpasti tahap pengetahuan, kemampuan, dan motivasi pemilik syarikat dalam pembangunan web yang selamat, Copyright, LY2020006468, 2020
5. Al-KAHF : Kembara Alam Hartawan Falak, Copyright, CRLY00014516, 2019
6. Modul Integriti Saintis Ulul Albab Quranik (MISUAQ), Copyright, CRLY00015606, 2019
7. Pembinaan Syakhsyiah 'Ibad al-Rahman Perspektif Al-Ghazali, Copyright, LY2019000884, 2019
8. E-SOLAR : Online Solar Alert System For Callisto Spectra, Copyright, LY2019000473, 2019
9. AQUAR: Augmented Reality utilization to display Quranic verses, Copyright, CRLY00014653, 2019
10. Caravanserai@UMT : Implementasi Konsep Wakaf Turki Uthmaniyyah Dalam Keperluan Masyarakat Moden, Copyright, LY2019000448, 2019
11. i-Tabayyun: Semakan Isu Tular berkaitan Falak Kontemporari Menerusi Aplikasi Telefon Pintar, Copyright, LY2018002732, 2018
12. Effects of Meteorological Factors on Communication Signals Transmission in Terengganu: A Statistical Approach, Copyright, CRLY00022033, 2018
13. AutoBurst: Automated Solar Radio Burst Monitoring System for CALLISTO Spectra, Copyright, CRLY00014709, 2019
14. Saintis Islam: Anjakan Cendekiawan Profesional, Copyright, CRLY00010551, 2018
15. Circular microstrip patch antenna for frequencies from 2.0 GHz to 2.93 GHz, Copyright, CRLY00010346, 2018
16. Circular microstrip patch antenna for frequencies from 0.8 GHz to 4.00 GHz, Copyright, CRLY00010345, 2018
17. MyRFI Map : Mapping for Radio Frequency Interferences in Peninsular Malaysia, Copyright, LY2017002964, 2017
18. Burst-Finder: Automated Solar Radio Burst Detection For E-CALLISTO Spectra, Copyright, LY2017001588, 2017

## ASSESSOR/EVALUATOR/JURY

### Program Assessor Panel

1. Chairman of the evaluator panel for full accreditation Diploma Agrotechnology Programme, Politeknik Sandakan, Technology and Technical Accreditation Council (TTAC) Malaysia Board of Technologist (MBOT). 2021.

2. External Assessor for Deemed Accredited Programme for Bachelor of Science (Hons) Physics (AS203), UiTM (Area 1- Program Development And Delivery & Area 2 – Assessment Of Student Learning). 2018.
3. MQA document for Master of Science (Tropical Marine Environment), UMT. 2020.

#### Jury in Competition/Seminar

1. Event: Pre- University Malaysia Innovation Competition 2021 (PIITRAM 2021)  
Date: 7 – 9 Mar 2021  
Organizer: UMT & UniSZA
2. Event: Amalan Inovasi Pengajaran dan Pembelajaran (AIPP)  
Date: 30 Nov – 1 Dec 2020  
Organizer: UMT
3. Event: Pertandingan Bayt al-Hikmah  
Date: 20 Nov 2019  
Organizer: Pusat Islam Sultan Mahmud, UMT
4. Event: Seminar Sekuriti dan Kelestarian Biologi ke-2 (BIOSES 2019)  
Date: 29 – 30 Oct 2019  
Organizer: UMT & UniSZA
5. Event: Rekacipta dan Inovasi, Karnival STEM Peringkat Negeri Terengganu 2019  
Date: 6 – 7 Nov 2019  
Organizer: Jabatan Pendidikan Negeri Terengganu
6. Event: Student Research Day 2019  
Date: 20 – 21 May 2019  
Organizer: UMT
7. Event: Interview for Program Saintis Islam Kohort V  
Date: 15 Jan 2019  
Organizer: UMT-PSKT-Yayasan Terengganu
8. Event: Pertandingan e-poster “Quran & STREAM” Bayt al-Hikmah read@uni  
Date: 8 May 2019  
Organizer: Pusat Islam Sultan Mahmud, UMT
9. Event: Undergraduate Research Day 2018  
Date: 15 – 16 May 2018  
Organizer: UMT
10. Event: Three-Minute-Thesis (3MT) PPSA

Date: 20 Mar 2018

Organizer: Pusat Pengajian Sains Asas (PPSA), UMT

11. Event: Interview for Program Saintis Islam Kohort IV

Date: 23 Dis 2017

Organizer: UMT-PSKT-Yayasan Terengganu

12. Event: Program SEM III SM Imtiyaz Kuala Nerus

Date: 25 Apr 2015

Organizer: SM Imtiyaz Yayasan Terengganu Kuala Nerus

## CONSULTATION

1. Project Description: Specialist consultation and guidance for RFID antenna enhancement  
Duration: Nov 2018 – Mar 2019  
Client: Quatriz System Sdn. Bhd.
2. Project Description: Writing storyboard for Ministry of Education, Malaysia on several topics of Physics in building a courseware to be implemented by government school  
Duration: May 2005 - Jan 2006  
Client: Telekom Smart School & Kementerian Pendidikan Malaysia

## COMMUNITY SERVICE/KNOWLEDGE TRANSFER

1. Project Description: Program Pemindahan Ilmu (Bedak Sejuk Pandan Mulbery)  
Duration: Nov 2019  
Community: Komuniti KRT Bandar Jertih
2. Project Description: Development of guidelines module for Syariah offender counselling session.  
Duration: Feb 2019 – present  
Client: Jabatan Hal Ehwal Agama Terengganu  
Community: Syariah Officer
3. Project Description: Program Saintis Islam Terengganu  
Duration: 2015 – 2022  
Client: Yayasan Terengganu, Pusat Sains dan Kreativiti Terengganu.  
Community: Huffaz and Excellent student of Terengganu
4. Project Description: Program Elit InES-P  
Duration: May – Dec 2015  
Client: Yayasan Terengganu & Jabatan Pendidikan Negeri Terengganu.

- Community: Huffaz and Excellent student of Terengganu
5. Project Description: Program Pemindahan Ilmu Transformasi Minda Psikospiritual Remaja Pesisir  
Duration: May – Dec 2015  
Client: Jawatankuasa Kebajikan Kanak-kanak Daerah (JKKD) Kuala Terengganu dan Jabatan Kebajikan Masyarakat (JKM) Negeri Terengganu.  
Community: Juvenile.
  6. Project Description: Program Selangkah Kearah Kecemerlangan Fizik  
Duration: 15 – 17 Oct 2010  
Community: Form 5 students from 5 secondary school in Terengganu.
  7. Project Description: Program Khemah Ibadat Siri 2/2004  
Duration: 6 – 8 Aug 2004  
Community: SMK Temin.

## LINKS

- SCOPUS : <https://www.scopus.com/authid/detail.uri?authorId=57208125285>
- WoS : <https://app.webofknowledge.com/author/record/5997652>
- ResearcherID : <http://www.researcherid.com/rid/C-8938-2012>
- ORCID : <https://orcid.org/0000-0002-4481-460X>
- Publon : <https://publons.com/researcher/2742260/nor-hazmin-sabri/>
- Researchgate : [https://www.researchgate.net/profile/Nor\\_Sabri/](https://www.researchgate.net/profile/Nor_Sabri/)
- Academia.edu : <https://terengganu.academia.edu/NorHazminSabri>
- LinkedIn : [www.linkedin.com/in/nor-hazmin-sabri-a40aab3b](http://www.linkedin.com/in/nor-hazmin-sabri-a40aab3b)
- Google Scholar : [https://scholar.google.com/citations?user=dQ2Bi\\_IAAAAJ&hl=en](https://scholar.google.com/citations?user=dQ2Bi_IAAAAJ&hl=en)
- Research Website : <https://sites.google.com/site/emrgmalaysia/home>