

CURRICULAR VITAE

Personal & Service Particulars:



Name : Roslan b. Umar
IC No. : 800305-11-5235
Date of Birth : 5th March 1980
Age : 37
Gender : Male
Race : Malay
Marital Status : Married
Nationality : Malaysia
Office Tel. No : 609-6663410/+609-6688186
H/p no. : +6019-3334206
E-mails : roslan@unisza.edu.my, hazlan80@gmail.com

Research Fellow,
East Coast Environmental Research Institute,
Universiti Sultan Zainal Abidin, Gong Badak Campus,
21300, Kuala Terengganu.

Senior Lecturer,
Faculty of Islamic Contemporary Study,
Universiti Sultan Zainal Abidin (UniSZA), Gong Badak Campus, 21300, Kuala Terengganu.

Academic Qualifications:

Academic Qualification : **Doctor of Philosophy (Physics)**
Acronym : PhD (Physics)
Discipline : Astronomy
Award Institution : University of Malaya
Majoring : Radio Astronomy, Radio Frequency Interference, GIS
Research project : RFI Mapping for Radio Astronomy in Malaysia.

Academic Qualification : **Master of Sciences (Physics)**
Acronym : S.Sn(Fizik)
Discipline : Physics Theory and Simulation
Award Institution : Universiti Kebangsaan Malaysia
Year Awarded : 2006
Majoring : Device simulation, semiconductor, PVM programming in Linux Environment.
Research project : The developing of Parallel Ensemble Monte Carlo and Its Application to GaAs Device Simulation.

Academic Qualification : **Bachelor of Sciences (Hons.) Physics**
Acronym : Sm.Sn(Kep.) Fizik
Discipline : Pure Physics

Award Institution : Universiti Kebangsaan Malaysia
Year Awarded : 2002
Final Year Project : To Study Magnetic Field Characteristic Physics On PbZn

Research Interest: Astronomy & Astrophysics, Radio Wave Propagation, Electromagnetic Radiations (EMR), Geographical Information System (GIS), Islamic Astronomy (Falak), Sky Brightness (Optical Astronomy), Computational Physics, Simulation Physics & Device Simulation.

Professional Affiliation

No.	Organization	Role	From	Until
1.	Institut Fizik Malaysia	Member	2012	Present

Working Experience and Career History:

Academic Position:

Jan 2015 – Present

Post : Senior Lecturer
Organization : Universiti Sultan Zainal Abidin (UniSZA)

Oct 2010 – Jan 2015

Post : Lecturer
Organization : Universiti Sultan Zainal Abidin (UniSZA)

Oct 2007 – 2010

Post : Lecturer
Organization : Universiti Darul Iman Malaysia (UDM)

Oct 2005 – 2007

Post : Lecturer
Organization : Kolej Ugama Sultan Zainal Abidin (KUSZA)

July 2005 – Oct 2005

Post : Tutor
Organisation : Kolej University Teknologi dan Pengurusan Malaysia (KUTPM)

Jan 2005 – Apr 2005

Post : Part Time Tutor
Organization : Open University Malaysia (OUM)

May 2004 – April 2005

Post : Part Time Tutor
Organization : Malaysian Army Forces Academy (ATMA)

Research Supervision:

PhD Supervision

No.	Student's Name	Role	Project Title	Status
1.	Musa Garba Abdullahi (PA15S11203)	Supervisor	Sky Brightness Study in Kano, Nigeria and Peninsular of Malaysia	In Progress
2	Nur Zulaikha Mohd Afandi	Supervisor	Implementation of Frequency Drift for Identification of Solar Radio Burst Type II	In Progress

Master Supervision

No.	Student's Name	Role	Project Title	Status
1.	Marhamah bt Mohd Shafie	Supervisor	Solar Radiation effect on Radio Signal for Radio Astronomy Purposes	In Progress
2.	Sharifah Nurul Aisyah bt Syed Zafar	Supervisor	Radio Frequency Interference: Wind Effect on Radio Signal for Radio Astronomy Purposes	In Progress
3.	Fatin Syaza Binti Shariff Khan	Supervisor	The ambient of EMR in Kuala Nerus	In Progress
4.	Farhana Binti Mohamad Yussof	Co-Supervisor	EMR study	In Progress
5.	Noorjima Bt Abd Wahab	Co-Supervisor	Assessment of Total Suspended Sediment and Bed Sediment Grains in Upstream Areas of Terengganu	In Progress

Final Year Project (UniSZA)

Academic Session 2015/2016

No.	Student's Name	Role	Project Title	Status
1.	Nor Fazila Rusni (034698)	Supervisor	Pencerapan Anak Bulan Menggunakan Radio dan Optik	In Progress
2.	Mohammad Badrul Hafiz Nasri (032557)	Supervisor	Konsep Tabayyun dalam isu Berkaitan Falak : Analisis menurut Nas dan Teori Sains	In Progress
3.	Nor Hazlina Alias	Supervisor	Kecerahan langit	In Progress

Final Year Project (UMT-UniSZA)

Academic Session 2015/2016

No.	Student's Name	Role	Project Title	Status
1.	Noor Khuraisah bt Yusof (UK32946)	Co-Supervisor	Radio Frequency Interference	In Progress

2.	Nur Ain bt Azizan (UK32349)	Co-Supervisor	Radio Frequency Interference	In Progress
3.	Adilatul Azizah bt Tajul Ariffin (UK32781)	Co-Supervisor	Radio Frequency Interference	In Progress
4.	Nur Izzati bt Azahari (UK31882)	Co-Supervisor	Radio Frequency Interference	In Progress
5.	Farah Wahida bt Ramu (UK31704)	Co-Supervisor	Radio Frequency Interference	In Progress

Academic Session 2014/2015

No.	Student's Name	Role	Project Title	Status
1.	Atiq Wahidah bt Azlan (UK29138)	Co-Supervisor	Radio Frequency Interference: The Effect of Siolar Radiation on Radio Signal for Radio Astronomy Purposes	Completed
2.	Shahirah Syafa bt Sulan (UK29681)	Co-Supervisor	Radio Frequency Interference: Rain Effect on Radio Signal for Radio Astronomy Purposes	Completed
3.	Sharifah Nurul Aisyah bt Syed Zafar (UK29141)	Co-Supervisor	Radio Frequency Interference: The Effect of Ambient Carbon Dioxide on Radio Signal for Radio Astronomy Purposes	Completed

Research as Lecturer:

No.	Research Title	Role	Source	Status/Year
1.	Coastal Area Electromagnetic Radiations (EMR) Exposure: Mapping The Ambient Non-Ionizing Radiations Exposure Value Of Terengganu Using GIS	Co-Researcher	Tabung Penyelidik Muda (UMT)	2016-2018
2.	Public Electromagnetic Radiations (EMR) Exposure Policy: Mapping The Ambient Non-Ionizing Radiations Exposure Value Of Malaysia Using Gis	Leader/PI	FRGS	2015-2017
3.	Siasatan Penghasilan Sediman Dasar: Satu Kajian Kes Di Sungai Terengganu, Terengganu, Malaysia	Co-Researcher	RAGS	2015-2017
4.	Theoretical and experimental investigations of lead chalcogenide quantum confined structures for solar cell application exceeding 10% of	Co-Researcher	FRGS	2015-2017

	efficiency			
5.	Kesan Hakisan Tebing Dan Sisi Sungai Akibat Luruan Air Banjir 2014: Keperluan Garis Panduan Pembangunan Zon Penampungan Sungai Di Malaysia	Co-Researcher	FRGS	2015
6.	Analisis Perubahan Plan Sungai Bagi Pemetaan Kesan Banjir Dan Sebagai Penentu Kepada Pengurusan Banjir Di Sungai Pahang, Malaysia	Co-Researcher	FRGS	2015
7.	Weather Effect on Radio Signal for Radio Astronomy Purposes	Leader/PI	RACE	2015
8.	Investigations of Dark Matter, Merger and WIMPs in Galaxy and Clusters	Co-Researcher	UMRG	2015
9.	Observing The Effect Of The Magnetic Re-Connection On The Structure Of Solar Flares And Coronal Mass Ejections Events Based On Solar Radio Burst Type Ii And Iii	Co-Researcher	FRGS	2014-2015
10.	The First Radio Quiet Zone (RQZ) Map For Radio Astronomy	Co-Researcher	Agensi Angkasa Negara	Completed / 2013-2014
	RFI Study for Radio Astronomy	Co-Researcher	University of Malaya	Completed / 2011-2014

Book:

Bencana Banjir Kupasan Pelbagai Perspektif. 2015. Chapter: Pendekatan Psikospiritual Dalam Menangani Isu Stres Akibat Banjir. Penerbit UniSZA

Bencana Banjir Kupasan Pelbagai Perspektif. 2015. Chapter: Kesan Sedimentasi Terhadap Hidrologi Dan Kejadian Banjir: Satu Kajian Kes Di Sungai Kelantan. Penerbit UniSZA

Bencana Banjir Kupasan Pelbagai Perspektif. 2015. Chapter: Bencana Banjir Kupasan Pelbagai Perspektifputaran Bumi- Bulan Dan Kesannya Terhadap Banjir. Penerbit UniSZA

Journal Publications:

Temperature Effect on the Tropospheric Radio Signal Strength for UHF Band at Terengganu, Malaysia. R Mat, MM Shafie, S Ahmad, R Umar, YB Seok, NH Sabri International Journal on Advanced Science, Engineering and Information Technology. 2016.

Implementation of Frequency Drift for Identification of Solar Radio Burst Type II
NZM Afandi, ZZ Abidin, R Umar, NH Sabri, ZA Ibrahim, C Monstein. *International Journal on Advanced Science, Engineering and Information Technology*. 2016.

Environmental Management on Natural Lake Using Sediment and Hydrology Hydraulic Models. Mohd Khairul Amri Kamarudin, Mohd Ekhwan Toriman, Mushrifah Idris, Hafizan Juahir, Azman Azid, Muhammad Barzani Gasim, Roslan Umar, Azizah Endut, Mazlin Mokhtar, Saiful Iskandar Khalit, Azimah Ismail, Nur Haizal Mat Yaakob, Manutha Appa Rwoo. *Malaysian Journal of Applied Sciences* 1 (2), 9-26.

A Review of Biomass-Derived Heterogeneous Catalyst For A Sustainable Biodiesel Production. SHYS Abdullah, NHM Hanapi, A Azid, R Umar, H Juahir, H Khatoon, ... *Renewable and Sustainable Energy Reviews*. 2016.

Assessment of Total Suspended Sediment and Bed Sediment Grains in Upstream Areas of Lata Berangin, Terengganu. NA Wahab, MKA Kamarudin, MB Gasim, R Umar, FM Ata, NH Sulaiman. *International Journal on Advanced Science, Engineering and Information Technology*. 2016.

Spatial assessment and source identification of heavy metals pollution in surface water using several chemometric techniques. Azimah Ismail, Mohd Ekhwan Toriman, Hafizan Juahir, Sharifuddin Md Zain, Nur Liyana Abdul Habir, Ananthi Retnam, Mohd Khairul Amri Kamaruddin, Roslan Umar, Azman Azid. *Marine pollution bulletin* 106 (1), 292-300. 2016.

The Ecological Impacts of Light Pollution at Night-time a Mechanistic Appraisal
A Musa Garba, U Roslan, K Mohd Khairul Amri. *International Journal of Environment, Agriculture and Biotechnology (IJEAB)*. 2016.

Optimization and Economic Analysis of Grid-Photovoltaic Electric Boat Charging Station in Kuala Terengganu. NAS Salleh, WMW Muda, R Umar. *MATEC Web of Conferences* 74, 00022. 2016.

Assessment of Economic Feasibility for Gridconnected Renewable Energy System for A Household Application in Terengganu . WMW Muda, R Umar *International Journal of Energy Production and Management* 1 (3), 223-232. 2016.

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.

Umar, Roslan and Sabri, N.H. and Ibrahim, Z.A. and Abidin, Z.Z. and Muhamad, A.a (2015) Measurement technique in radio frequency interference (RFI) study for radio astronomy purposes *Teknik pengukuran dalam kajian gangguan interferen radio (RFI)*

bagi tujuan astronomi radio. *Malaysian Journal of Analytical Sciences*, 19 (5). pp. 960-965.

Sabri, N.H.a and Syed Zafar, S.N.A.b and Umar, Roslan and Wan Mokhtar, W.Z.A.e (2015) Radio frequency interference: The effect of ambient carbon dioxide (CO₂) concentration on radio signal for radio astronomy purposes *Interferens frekuensi radio: Kesan kepekatan karbon dioksida (CO₂) ambien ke atas isyarat radio dalam kajian astronomi radio*. *Malaysian Journal of Analytical Sciences*, 19 (5). pp. 1065-1071.

Kamarudin, Mohd Khairul Amri and Toriman, Mohd Ekhwan and Juahir, Hafizan and Azid, Azman and Gasim, Muhammad Barzani and Umar, Roslan (2015) ASSESSMENT OF RIVER PLAN CHANGE USING RS AND GIS TECHNIQUE. *Jurnal Teknologi*, 76 (1). pp. 31-38.

Gasim, Muhammad Barzani and Zakaria, N and Umar, Roslan and Mustafa, A.D. (2015) A physico-chemical water quality and microbial content analysis in upstream of Langat river, Selangor) Analisis kualiti air fiziko-kimia dan kandungan mikrob di hulu sungai Langat, Selangor. *Malaysian Journal of Analytical Sciences*, 19 (5). pp. 1072-1083.

Umar, Roslan and Sabri, Nor Hazmin and Zainal Abidin, Zamri and Azid, Azman and Juahir, Hafizan and Toriman, Mohd Ekhwan and Kamarudin, Mohd Khairul Amri. (2015). PRELIMINARY STUDY OF RADIO ASTRONOMICAL LINES EFFECT OF RAIN BELOW 2.9 GHZ. *Jurnal Teknologi*, 75 (1). pp. 7-11.

Sabri, Nor Hazmin and Umar, Roslan and Wan Mokhtar, Wan Zul Adli and Zainal Abidin, Zamri and Ibrahim, Zainol Abidin and Azid, Azman and Juahir, Hafizan and Toriman, Mohd Ekhwan and Kamarudin, Mohd Khairul Amri (2015) PRELIMINARY STUDY OF VEHICULAR TRAFFIC EFFECT ON RADIO SIGNAL FOR RADIO. *Jurnal Teknologi*, 75 (1). pp. 313-318.

Azid, Azman and Juahir, Hafizan and Toriman, Mohd Ekhwan and Endut, Azizah and Abdul Rahman, Mohd Nordin and Kamarudin, Mohd Khairul Amri and Umar, Roslan (2015) Identification Source of Variation on Regional Impact of Air Quality Pattern Using Chemometric. *Aerosol and Air Quality Research*.

Abidin, Z. Z.; Anim, N. M.; Hamidi, Z. S.; Monstein, C.; Ibrahim, Z. A.; Umar, R.; Shariff, N. N. M.; Ramli, N.; Aziz, N. A. I. & Sukma, I. 2015. Radio Frequency Interference in Solar Monitoring using CALLISTO. *New Astronomy Reviews*, 67. pp. 18-33. ISSN 1387-6473 (Printed) 1872-9630 (Online).

Hashim, N.; Abidin, Z.; Ibrahim, U.; Hassan, M.; Hamidi, Z.; Umar, R. & Ibrahim, Z. 2015. The Nonlinear Least Square Fitting for Rotation Curve of Orion Dwarf Spiral Sains *Malaysia*, Universiti Kebangsaan Malaysia, 2015, 44, 457-462.

Azman Azid, Hafizan Juahir, Ezureen Ezani, Mohd Ekhwan Toriman, Azizah Endut, Mohd Nordin Abdul Rahman, Kamaruzzaman Yunus, Mohd Khairul Amri Kamarudin,

Che Noraini Che Hasnam, Ahmad Shakir Mohd Saudi, Roslan Umar. 2015. Identification Source of Variation on Regional Impact of Air Quality Pattern Using Chemometric Aerosol and Air Quality Research, Taiwan Association for Aerosol Research, (Article in Press).

Umar, R., Abidin, Z. Z., & Ibrahim, Z. A. (2014, October). The Importance of Site Selection for Radio Astronomy. In *Journal of Physics: Conference Series* (Vol. 539, No. 1, p. 012009). IOP Publishing.

R Umar, ZZ Abidin, ZA Ibrahim, Z Rosli, N Noorazlan. 2014. *Selection of radio astronomical observation sites and its dependence on human generated RFI*. *Research in Astronomy and Astrophysics* 14 (2), 241

R Umar, ZZ Abidin, ZA Ibrahim, N Gasiprong, K Asanok, S Nammahachak. 2013. *The Study of Radio Frequency Interference (RFI) in Altitude Effect on Radio Astronomy In Malaysia And Thailand*. *Middle-East Journal of Scientific Research* 14 (6), 861-866

ZZ Abidin, R Umar, ZA Ibrahim, Z Rosli, K Asanok, N Gasiprong. 2013. *Investigation on the Frequency Allocation for Radio Astronomy at the L Band*. *Publications of the Astronomical Society of Australia* 30, e047.

ZS Hamidi, NNM Shariff, C Monstein, ZZ Abidin, ZA Ibrahim, N Hashim. 2013. *Space Weather: The Role of Solar Radio Monitoring in Malaysia and Implications of Sun Activities to the Earth*. *International Journal of Fundamental Physical Sciences* 3 (4)

R Umar, ZZ Abidin, ZA Ibrahim. 2013. *The importance of Radio Quiet Zone (RQZ) for radio astronomy*. 2012 National Physics Conference:(PERFIK 2012) 1528 (1), 32-37

ZS Hamidi, NNM Shariff, R Umar. 2012. *Influence Factors of Radio Frequency Interference (RFI) for Solar Radio Astronomy Purpose at National Space Centre Malaysia*. *Thailand Journal of Physics* 3, 6

ZS Hamidi, ZZ Abidin, ZA Ibrahim, NNM Shariff, UFSU Ibrahim, R Umar. 2011. *Preliminary analysis of investigation Radio Frequency Interference (RFI) profile analysis at Universiti Teknologi MARA*. *Space Science and Communication (IconSpace)*, 2011 IEEE International

N Hashim, ZZ Abidin, U Ibrahim, R Umar, MSR Hassan, Z Rosli. 2011. *Radio Astronomy in Malaysia: Current Status and Outreach Activities*. *Astronomical Society of the Pacific Conference Series* 451, 355

R Umar, ZZ Abidin, ZA Ibrahim, MSR Hassan, Z Rosli, ZS Hamidi. 2011. *Population density effect on radio frequencies interference (RFI) in radio astronomy*. *International Conference On Physics And Its Applications:(ICPAP 2011)* 1454

R Umar, ZZ Abidin, ZA Ibrahim. 2011. *Implementing the GIS technique for RFI mapping for radio astronomy in Malaysia*. Space Science and Communication (IconSpace), 2011 IEEE International.

A. P. Othman, R. Umar & G. Gopir. 2008. Application of Parallel Ensemble Monte Carlo Technique in Charge Dynamics Simulation. (Aplikasi Teknik Monte Carlo Ensembl Selari pada Simulasi Dinamik Cas). *Sains Malaysiana* 37(1)(2008): 89-93.

R. Umar and A. P. Othman, 2004. *Parallel Ensemble Monte Carlo Formulation On A Cluster For Transient Characteristics Of GaAs*. *Journal of Solid State Science and Technology*, Vol. 12, No 1 (2004) 71-77.

R. Umar & A. P. Othman, 2003. *Parallel Ensemble Monte Carlo Formulation On A Cluster For Transient Characteristics Of GaAs*. *Proceeding of The XX Regional Conference on Solid State Science & Technology*, Lumut Perak.

A. P. Othman, R. Umar & A.J.M. Adnan, 2003. *GaAs Transient Implemented Parallel Ensemble Monte Carlo On Linux Cluster*. *Proceeding of Advanced Technology Congress 2003 in Conference of Advanced Theoretical Sciences (CATS2003)* Mariott Hotel Putrajaya.

Roslan bin Umar, 2004. Parallel Ensemble Monte Carlo Formulation On A Cluster For Transient Characteristics Of GaAs

R. Umar and A.P. Othman, 2003. Mensimulasikan Arus Transient GaAs Menggunakan Kaedah Ensembl Monte Carlo Secara Selari. *Proceeding of Kolokium Siswazah Ke-3*. Universiti Kebangsaan Malaysia, Bangi.

Roslan bin Umar, 2002. To Study Magnetic Field Characteristic Physic On PbZn.

Proceeding/Conferences

Assessment Of Light Pollution For Environmental Protection In Tropica Areas. Challenges in Environmental Science & Engineering 2016, Khaosiung, Taiwan. 6-10 November 2016.

Environment Protection Of Radio Astronomy Measurements From Ground Based Interference. Challenges in Environmental Science & Engineering 2016, Khaosiung, Taiwan. 6-10 November 2016.

Nor Hazmin Sabri, Roslan Umar, Marhamah Mohd Shafie, Sharifah Nurul Aisyah Syed Zafar, Roshidah Mat, Sabri Ahmad, Zainol Abidin Ibrahim. 2016. Correlation Analysis of Tropical Rainforest Climate Effect on Radio Signal Attenuation at Near Surface Environment: A Preliminary study. 2016. International Conference on Science and Technology Applications in Climate Change (STA CLIM 2016).

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. 2016. New Technique for Identification of Solar Radio Burst Type II and Type III for Monitoring Space Weather. 2016. International Conference on Science and Technology Applications in Climate Change (STACLIM 2016).

Fatin Syaza Shariff Khan, Roslan Umar, Nor Hazmin Sabri, Azmi Hassan, Hafizan Juahir, Mohd Khairul Amri Kamarudin, Nor Shahida Abd Mutalib , Hajar Jaafar. 2016 Non-Ionizing Radiation as Threat in Everyday Life: A Review (IPRC 2016)

Siti Nur Dianah Abdul Rahman, Nor Hazmin Sabri, Mohd Khairul Amri Kamarudin, Roslan Umar, Ahmad Nazri Dagang. 2016. A Review on the Study of EM Exposure Measurement Techniques From Base Station. International Postgraduate Research Conference 2016 (IPRC2016).

Marhamah Mohd Shafie, Roslan Umar, Nor Hazmin Sabri, Zainol Abidin Ibrahim. 2016. Radio Environment Below 1 GHz at Balai Cerap KUSZA: Radio Interference Analysis. International Postgraduate Research Conference 2016 (IPRC 2016).

M. S. Marhamah, A. A. Aziz, M. A. N. Zulaikha, A. R. S. N. Dianah, M. Roshidah, R. Umar, S. N. Hazmin, M. T. Ali, A. N. Dagang, H. Jaafar. 2016. Radio Astronomy: Performance Analysis of Discone Antenna for Radio Frequency Interference (RFI) Measurement. The 6th International Conference on Mathematics and Natural Sciences (ICMNS 2016).

M, Roshidah and M. S., Marhamah and Umar, Roslan and S. N., Hazmin (2015) Tropical Weather Effect on the Tropospheric Radio Wave Propagation below 9GHz : A Pilot Study. In: PPSA Postgraduate Colloquium 2015 UMT.

Umar, Roslan and Mat Jusoh, Ahmad Jazlan and Mohd Nawawi, Mohd Saiful Anwar (2015) PENCERAPAN ANAK BULAN MENGGUNAKAN OPTIK DAN RADIO. In: International Seminar on al - Quran in Contemporary Society, 10-11 Oktober 2015, UniSZA.

Umar, Roslan and S. N., Hazmin (2015) Measurement Technique in RFI Study for Radio Astronomy Purposes. In UniSZA Conference2015: MPI UNISZA 2015, 14-16 April 2015, UniSZA.

Roslan Umar, Zamri Zainal Abidin & Zainol Abidin Ibrahim. The Importance of Radio Quiet Zone (RQZ) for Radio Astronomy. The 2012 National Conference on Physics (PERFIK 2012), Colmar Tropicale, Bukit Tinggi, Pahang. 19 - 21 November 2012. Proceeding.

N.Hashim^{1,2*}, Z.Z.Abidin¹, U.F.S.Ungku Ibrahim^{1,2}, R. Umar^{1,3}, M.S.R. Hassan¹, Z. Rosli¹, Z. S. Hamidi^{1,4} and Z.A.Ibrahim (2012). Radio Astronomy in Malaysia: Current Status and Outreach Activities Proceedings of The 9th Pacific Rim Conference on Stellar Astrophysics (PRCSA 2011), Lijiang, China. (*ISI Cited Publication*).

Roslan Umar, Zamri Zainal Abidin, Zainol Abidin Ibrahim, Mohd Saiful Rizal Hassan, Zulfazli Rosli and Zety Shahrizat Hamidi). Population Density Effect on Radio Frequencies Interference (RFI) In Radio Astronomy Proceedings of The 2011 International Conference on Physics and its application (ICPAP 2011). Bandung, Indonesia. *(ISI Cited Publication)*. 10-11 Nov 2011.

R.Umar, Z.Z Abidin & Z.Z Ibrahim (2011). Implementing the Technique for RFI Mapping for Radio Astronomy in Malaysia. Proceedings of The 2011 International Conference on Space Science & Communication (*IconSpace2011*). The Gurney Resort Hotel & Resident, Penang, Malaysia.. 12-13 July 2011. *(ISI Cited Publication)*.

Z. S. Hamidi, .Z Abidin, Z.Z Ibrahim, N. N. M. Shariff, U.F.S.U Ibrahim & R. Umar (2011). Preliminary Analysis of Investigation Radio Frequency Interference (RFI) Profile Analysis at Universiti Teknologi Mara. Proceedings of the 2011 International Conference on Space Science & Communication (*IconSpace2011*). The Gurney Resort Hotel & Resident, Penang, Malaysia. 12– 13July 2011..*(ISI Cited Publication)*.

Presentations:

Roslan Umar, Zamri Zainal Abidin & Zainol Abidin Ibrahim. The Importance of Radio Quiet Zone (RQZ) for Radio Astronomy. The 2012 National Conference on Physics (PERFIK 2012), Colmar Tropicale, Bukit Tinggi, Pahang. 19 - 21 November 2012. (Oral presentation).

Roslan Umar. 2012. Geographical Information System (GIS) in Radio Astronomy. Wacana Ilmu. Organized by Universiti Pendidikan Sultan Idris (UPSI), Tanjung Malim, Perak, Malaysia. 25 Jun 2012. (Oral presentation).

Roslan Umar. 2011. Radio Frequency Interference (RFI) for Radio Astronomy. Radio Frequency Interference Project (RFI) in Thailand. National Planetarium Kuala Lumpur. Organized by National Astronomical Research Institute of Thailand (NARIT), Chiang Mai, Thailand. 23 Dec 2011. (Invited speaker).

R. Umar, Z.Z Abidin, Z.A. Ibrahim, M.S.R. Hassan and N. Noorazlan. Altitude Effect on Radio Frequency Interferences (RFI) in Radio Astronomy. In 7th Mathematics and Physical Science Graduates Congress (MPSGC), Faculty of Science, National University of Singapore (NUS), 12-14 Dec 2011. (Oral presentation).

N.Hashim^{1,2*}, Z.Z.Abidin¹, P. Salucci³, J.M. Cannon³, U.F.S.Ungku Ibrahim^{1,2}, M.S.R. Hassan¹, R. Umar^{1,3},Z.A.Ibrahim. Rotation Curve Analysis for Orion Dwarf Galaxy. In 7th Mathematics and Physical Science Graduates Congress (MPSGC), Faculty of Science, National University of Singapore (NUS), 12-14 Dec 2011. (Oral presentation).

N.Hashim^{1,2*}, Z.Z.Abidin¹, U.F.S.Ungku Ibrahim^{1,2}, R. Umar^{1,3}, M.S.R. Hassan¹, Z. Rosli¹, Z. S. Hamidi^{1,4} and Z.A.Ibrahim. Radio Astronomy in Malaysia: Current Status

and Outreach Activities The 9th Pacific Rim Conference on Stellar Astrophysics (PRCSA 2011), Lijiang, China (Poster presentation).

Roslan Umar. 2011. Radio Frequency Interference (RFI) Mapping for Radio Astronomy, Kolokium “The Mystery of Dark Matter” 19 May 2011. National Planetarium Kuala Lumpur. Organized by ANGKASA & Radio Cosmology Lab, UM. (Oral presentation).

Review Work

No.	Journal/Proceeding	Total Manuscript	Date
1.	International Journal on Advanced Science, Engineering and Information Technology	4	Nov 2016
2.	Malaysian Journal of Analytical Sciences(MJAS)	6	July 2015
3.	Jurnal Teknologi	2	May 2015

Editorial Work

No.	Journal/Proceeding	Role	From	Until
1.	Banjir dari Perspektif Akademik		Jan 2015	Mei 2015
2	Malaysian Journal of Analytical Sciences(MJAS) Vol 6 (5)	Co-Editor	Jun 2015	Aug 2015

Internal/External Examiner

No.	Institution	Year	Total Thesis	Role	Level
1.	University Malaya	2016	1	External Examiner	MSc
2	UniSZA	2016	1	Internal Examiner	MSc