CURRICULUM VITAE

DR ROZITA BINTI OSMAN

ASSOCIATE PROFESSOR
FACULTY OF APPLIED SCIENCES
Universiti Teknologi MARA
40450 Shah Alam, Selangor

PERMANENT ADDRESS:
No. 27 Jalan Pegaga U12/12
Desa Alam Seksyen U12
40170 Shah Alam, Selangor

Phone: +603-55443861, Mobile:+6019-3587013; Fax: +603-55444562
E-mail: rozit471@uitm.edu.my; drrozitaosman@gmail.com

ACADEMIC QUALIFICATIONS

Doctor of Philosophy (Ph.D.) (Analytical Chemistry) (2010), Universiti Teknologi MARA, Shah Alam, Malaysia.

Master of Science (M.Sc) (Analytical Chemistry) (2000), Universiti Kebangsaan Malaysia, Bangi, Malaysia.

Bachelor of Science, B.Sc (Hons) (Chemistry) (1990). Universiti Kebangsaan Malaysia, Bangi, Malaysia.

PROFESSIONAL MEMBERSHIP

Associate Membership of Malaysian Institute of Chemistry (IKM) (2005-present).

Member of the Malaysian Analytical Sciences Society (ANALIS) (2001-present).

Associate Membership International Congress of Chemistry and Environment (AICCE) (2009-present).

CURRENT POSITION

Associate Professor
Chemistry and Environmental Centre
Faculty of Applied Sciences
Universiti Teknologi MARA
40450 Shah Alam

TEACHING/SUPERVISION

FST716: Advanced in Food Analysis: 2020 (Master)
CHM510: Analytical Separation Methods Year: 2017-present
CHM561: Quality in Analytical Measurement, BSc(Hons)-Applied Chemistry (4 Semesters-elective), BSc(Hons)-Chemistry (ForensicAnalysis- Semester 3-core), Year: 2010-present.
CHM138: Basic Chemistry – Diploma of Microbiology (Semester 1-48 Students: Year 2005)
CHM110: Introduction to Chemistry- Diploma of Science – New Cohort (Semester 1). Year 2005, 2004, 2003.
CHM510: Analytical Separation Methods - BSc (Hons) Applied Chemistry-Laboratory-Year 2005).
CHM178: Physical Chemistry- Diploma of Science (Semester 2). Year 2003, 2002, 2001
CHM256: Basic Analytical Chemistry- Diploma of Microbiology (Semester 3). Year 2004-Laboratory.
CHM128: Introduction to Chemistry- Diploma of Science-Old Cohort (Semester 1). Year 2003, 2002, 2001, 2000.
CHM137: Chemistry- Diploma of Applied Industrial Chemistry (Semester 1). Year 2000.

Supervision of Postgraduate Students

Ph.D:
Nazarudin Ibrahim, Mr. (Student ID:2009372511) - "Migraviability of Plastic Additive from Plastic Packaging to Food (Student ID:2009372511 - (Graduated).

Ku Madihah Ku Yaakob, Mrs (Student ID:2010207236) - "Effect of Processing Methods on Quality of Instant Coffee Products". (Graduated).

Siti Norbayu Binti Mohd.Subari- (Student ID: 2012795797)- "Determination of Pharmaceuticals by Magnetic Solid Phase Extraction Coupled with Liquid Chromatography" (Graduated)

Raja Zubaidah Raja Sabardin (Student ID:2013104601)-"Evaluation of evidence value of car paint primer using pyrolysis-gas chromatography-mass spectrometry (Py-GC-MS) (Graduated)

Husam Kafena- PhD-Faculty of Science-University Malaya (Co-supervisor): Graduated

Siti Raihan Binti Zakaria (Student ID:2015446974) Method Development of Microextraction Techniques of Volatile Compositions for Authentication of Harumanis Mango (Ongoing).

Mohd Safidin Bin Kashim (Student ID:2014224732) Heavy Metals Analysis in Malaysisn Oryza Sativa L. (Ongoing)

Nursyairah Binti Arshad (Student ID:2019799855) Environmental Monitoring of Naturally Occuring Radioactive Materials (NORMs) and Heavy Metals at Royal Belum Rainforest, Malaysia using Artificial Neuron Network (ANN) and Geographic Information System (GIS) Approaches. (Ongoing).

Nur Zaimah Binti Zaini @ Othman (Student ID:2019867568) Polypyrole-Graphene Oxide Nanocomposite Sorbent for Micro-Solid Phase Extraction of Tetracycline Antibiotics in Aquous Matrices. (Ongoing).

MSc:

Licaberth Ismail, Ms (Student ID: 2010976517 – "Analysis of Pharmaceuticals in Water and Application in Forensic". Supervisor (graduated).

Norazliza Binti Rosly, Ms (Student ID: 2010985549 –"Pesticide Residue Contamination in Paddy Field of Tanjung Karang, Selangor" (graduated).

Mohamad Rafaie bin Mohamed Zubir- "Application of chemical markers in tracing sources of contaminants in wastewater" (graduated).

Nur Awatif Rosli, Ms (Student ID: 2013482272)- Systematic Approach in Discriminating Automobile paint using Pyrolysis Gas Chromatography, Fourier Transform Infrared Spectroscopy and Chemometric methods.

Nur Nasriah Zaini, Ms (Student ID: 2014445152)- Chromatographic fingerprint and chemometric: A potential approach for authentication of Tongkat Ali (*Eurycoma longifolia)* (Graduated).

Alif Fahmi Aziz Mr (Student ID: 2018612428)- Geographical Discrimination of Pineapples by Multi-Element Analysis using Inductively Coupled Plasma-Mass Spectrometry (ICP – MS) and Chemometric Approach (Ongoing).

Syaidatul Faraha Binti Zainuddin (Student ID:2019128379) Systematic Classification of Pineapples Varieties by Chemometric Approach using Sensoty Analysis, Volatile and Phenolic Compositions. (Ongoing)

Supervision of Undergraduates Students

Farah Zulaikha binti Mohamad Rosdzi(2020) "Determination of Phenolic Compounds in Kelulut Honey Using Dispersive Liquid- Liquid Microextraction and Liquid Chromatography".

Nur Syazwani Binti Mohamed Sazly (2020) "Chemical Profiling of Honey of Different Sources Using Solid Phase Microextraction And Gas Chromatography-Mass Spectrometry".

Nurul Hidayah bt Hasni @ Mohd Zikri (2020) "Analysis of Volatile Compounds in *Kelulut* Honey using HS-SPME-GCMS".

Syarifah Nur Hidayah Binti Syed Afendi (2020) "Varietal Discrimination of Pineapple based on Volatile Compositions using Chemometric Approach".

Sofia Binti Marzuki (2020) "Study On The Effect of Washing in Removing Chlorpyrifos Residues in Cabbage using Quechers (Quick, Easy, Cheap, Effective, Rugged, And Safe) Technique"

Ummi Nasuha Binti Mohd Ali (2020) "Analysis of Ultraviolet (UV) Filters in Sunscreens by Using Gas Chromatography Mass Spectrometry (GCMS).

Noorlaila Binti Yusof (2019) "Determination of Selected Phenolic Compounds and Antioxidant Activities in Pineapple of Different Varieties".

Muhammad Ridha Bin Ishkandar (2019) "Determination of Heavy Metals in Different Variety of Pineapples using Inductive Couple Plasma Mass Spectrometry (ICP-MS)"

Noor Amira Binti Zainal Abidin (2019) "Identification of Volatile Constituents in Starfruit and Bilimbi using Headspace-Solid Phase Microextraction (HS-SPME) an Gas Chromatography Mass Spectrometry (GCMS)"

Muhammad Azimuddin Bin Izani (2019) "Occurrence of Selected Pharmaceuticals in Surface Water and their Removal Efficiency during Wastewater Treatment"

Puteri Batrisyia Ab Ghaffar (2019) "Analysis of Volatile Compounds in Different Varieties of Banana using Headspace-Solid Phase Microextraction (HS-SPME) with GCMS"

Nur Fatin Najwa Mohd Isa (2019) "Analysis of Volatile Compounds in Different Varieties of Pineapple using Headspace Solid Phase Microextraction (HS-SPME) and Gas Chromatography-Mass Spectrometry Detector (GC-MSD)"

Nadihaa Azman (2019) "Pharmaceutical as Potential Chemical Markers in Wastewater"

Siti Sabariah Amaruddin (2018) "Determination of Phenanthrene and Anthracene in Wastewater Using Solid-Phase Extraction (SPE) Couple with High Performance Liquid Chromatography (HPLC)"

Nur Sakinah Ahmad Daud (2018) "Analysis of Volatile Compounds in Different Types of Citrus Species by Solid Phase Microextraction Gas Chromatography Mass Spectrometer Detector (SPME-GCMS)

Ikmal Hazim Mat Sah (2018) "Determination of Linalool in Herbs Samples Using Solid Phase Microextraction (SPME) And Gas Chromatography-Mass Spectrometry Detector (GC-MSD)"

Alif Fahmi Aziz (2018) "Analysis of Chlorpyrifos in Guava using Solid Phase Extraction (SPE) and Gas Chromatography with Electron Capture Detector (GC-ECD)"

Mohammad Nazzarul Mohd Asri (2018) "Analysis of Trihalomethanes in Soil Using Quick, Easy, Cheap, Effective, Rugged And Safe (QuEChERS) Technique with Gas Chromatography-Electron Capture Detector (GC-ECD)".

Nor Alida Nordin (2018) "Determination of Ethanol Content in Liquid Dietary Supplements using Gas Chromatography Coupled with Flame Ionization Detector (GC-FID)".

Nur Izzati Jusoh (2017) "Determination of Benzoic and Sorbic Acid in Foodstuffs using High Performance Liquid Chromatography (HPLC)".

Hartini Hassan (2017) "Analysis of Trihalomethanes in Water Using Headspace-Solid Phase Microextraction (HS-SPME) Technique with Gas Chromatography-Electron Capture Detecter (GC-ECD)".

Defiona Iriynn Binti Defrijal (2017) *"*Simultaneous Extraction and Clean-up of Chlorpyrifos from Mustard Green (*Brassica juncea)"*

*Norshaherah Binti Mohd Idris "*Analysis of Chlorpyrifos in Chillies using Quechers Technique and Gas Chromatography Electron Capture Detector (GC- ECD)"

Nur IffahMohd Subki "Determination of Flavor Compounds in Pandanus amarylfolius Roxb and artificial pandan flavorusing Headspace Solid Phase Extraction and Gas Chromatography Mass Spectrometry (HS-SPME-GCMSD)"

Nur Azrina Binti Mohd Khaidzir "Determination of caffeine in instant coffee and soft drinks using solid phase microextraction and gas chromatography-mass spectrometry (SPME-GC-MS)"

Rahmatul Rahman "Determination of β-carotene content in carrot by solid phase extraction (SPE) and high performances liquid chromatography (HPLC-DAD)"

Fatin FatehahBinti Azmi " Determination of Selected PAHs) in Wastewater and Surface Water using Solid Phase Extraction and Gas Chromatography Flaime Ionization detector (GC-FID)"

Hazirah Johari "Determination of Selected Heavy Metals in Tongkat Ali Products using Atomic Absorption Spectroscopy and Mercury Analyzer"

Nazratul Akma Binti Badruz Zahi "Determination of β-Carotene in Spinach using UV Spectrophotometer"

*Amirul Fazli 'Aini "*Determination of Eurycomanone in Tongkat Ali Roots (Eurycoma longifolia Jack) and its Commercial Products"

As-Ari Amar Shafiee "Analysis of Chlorpyrifos in Apples using Solid Phase Extraction and Quechers Techniques"

Mohamad Nazrin Bin Abd Majid (Student ID: 2012612458- "Determination of Acetaminophen and Caffeine in Wastewater using Solid-Phase Extraction and Liquid Chromatography").

Mohd Fikhri Bin Zulkiply (Student ID: 2012217672- "Determination of Agarwood Chemical Compositions using accelerated solvent extraction and Gas Chromatography-Mass Spectrometry").

Nursyahirah Idayu Kasim (Student ID: 201229195- "Analysis of flavonoids from guava and tomatoes using two Dimensional High Performance Liquid Chromatography (2D-HPLC).

Nur Enzati Afwana binti Ismail (Student ID:2010544151-"One step extraction and clean-up pharmaceuticals in soil using pressurised liquid extraction technique").

Nor Atiqah binti Mohd. Nor (Student ID: 2010473068-"Analysis of pharmaceuticals in water").

Siti Nur Azmu'i Abdullah (Student ID: 2010429274 –"Analysis of erythromycin in wastewater").

Nurdiyana Mohd Anuar (Student ID: 2009662104- "Migration of Monomers and Plasticizers from Polystyrene Packages into Food")

Nor Hafizah binti Yunus (Student ID: 2009630582- "Multiresidual Analysis of Organic Contaminants in Water Sample using Tandem Cartridge Solid Phase Extraction (SPE) method")

Mohd. Afiq bin Ismail (Student ID: 2009696822-"Application of Solid Phase Microextraction (SPME) and Accelerated Solvent Extraction (ASE) Methods in Profiling Accelerants in Soils")

Nur Syazana binti Abdul Aziz (Student ID: 2009672554 –"Analysis of Pharmaceutical Residue in Water and Wastewater")

Siti Kartika Binti Hamdan (Student ID:2009212646 –"Determination of Metoprolol in Wastewater using Solid Phase Extraction (SPE) and High Performance Liquid Chromatography (HPLC)"

Mohamad Rafaie bin Mohamed Zubir (Student ID:2008403706 –"A Study on the Migration of Melamine from Melamin Dishware into Water")

Hurin Ain Binti Wan Abi Sabian (Student ID:2008403702 –"Determination of Melamin in Livestock Feed").

Darna binti Jimbang- "Method Development for Selective Extraction of Organic Contaminants from Soil using Pressurised Liquid Extraction (PLE)").

Ashiladevi Ahmad- "Study on the Selectivity and Efficiency of Sorbent for One Step Clean-up in Accelerated Solven Extraction (ASE) of Herbicides from Soil").

Mohammad Hafiz b Abdul Rahman-"Superheated Water Extraction of Natural Dye"

Rossuriati Dol Hamid- "Extraction of Sterol from Soil using Accelerated Solvent Extraction (ASE) Coupled with in-situ Derivatization".

Nurulhuda Mamat Ghani-"Development of Accelerated Solvent Extraction with One-step Clean-up for Hydrocarbon in Soil"

Syafawati Mohd Salleh – "Simultaneous Extraction and Clean-up of Chlorpyrifos from Spinach (*Spinach oleracea*) Using Pressurised Liquid Extraction (PLE)".

Mohammad Hafiz bin Abdul Rahman-" Superheated water extraction of natural dyes"

Dora Young Wan- "A case study of the effectiveness of cooperative learning (JIGSAW II) in the science subject of form four towards their achievement"

Research Projects

	Research Project	Source	Total Funds	Begin Year	End Year
1	Migration of monomer/dimer, additives and plasticizers from plastic packaging to food. (completed)	MOSTI FRGS	RM48,000	2010	2012
2	Study on the selectivity and efficiency of sorbents for one step clean-up in accelerated solvent extraction of organic pollutants from soil and sediment samples. (Completed)	MOSTI FRGS	RM83,200	2007	2010
3	Multivariate Chemometrics Analysis for Forensic Discrimination of Writing Inks. (completed)	MOSTI FRGS	RM49,000	2011	2013
4	Performances of Multidimensional Online SPE-LC-DAD Method for the Determination of Benzo[a]pyrene in Coffee. (Completed)	DANA UiTM	RM7000	2009	2011
5	Application of chemical markers in tracing sources of contaminants in wastewater. (completed)	ORGANISATION FOR PROHIBITION OF CHEMICAL WEAPONS (OPCW)	RM81624.74 (EUR20,279)	2011	2013
6.	Identification of Pollution Source in Langat River using Chemometric Approach (completed)	DANA	RM10000	2012	2013
7.	Hydroxyapatite Reinforced β Type Titanium Alloy Nanocomposite (completed)	FRGS	RM63000	2012	2014
8.	Application of Caffeine Molecular Imprinted Polymer in the Extraction of Caffeine in Coffee Beans, Cocoa Beans and Tea Leaves using Pressurized Liquid Extraction (completed)	DANA RIF	RM32000	2012	2014
9.	Systematic Approach in Discriminating Automobile paint using Pyrolysis Gas Chromatography, Fourier Transform Infrared Spectroscopy and Chemometric methods	ERGS	RM84000	2012	2015
10.	Chromatographic fingerprint and chemometric: A potential approach	FRGS	RM69100	2014	2016

for authentication of Tongkat Ali
(*Eurycoma longifolia)* (completed)

11. Bioactive compounds coupled with chemometric tools for quality control of pineapple (2016-2019), Research Entity Initiative (REI), UiTM.(Total Fund: RM 32,000.00).

12. Combining chemometric analysis and chromatographic fingerprints for quality control of harumanis mangoes. (2016-2018), FRGS, Ministry Of Higher Education (Total Fund: RM 60,000.00)
13. Study on the occurrence of pharmaceuticals in selected Klang River tributaries (600-IRMI/MyRA/5/3/LESTARI (049/2017).

14. Systematic Classification Of Pineapple Varieties By Chemometric Approach Using Sensory Analysis, Volatile And Phenolic Compositions. (2018-2020) FRGS (Total Fund: RM 69,200.00).

15. A Novel and Sensitive Method for Determining Vitamin B in Milk by Online Solid Phase Extraction Liquid Chromatography (Online SPE) (2019-2021) FRGS RACER (Total Fund: RM 52,000.00)

RESEARCH COLABORATION

Conducted research colaboration with:

1. Dr. Vesna Furtula from Pacific Enviromental Science Centre, AEIRD-Water Science and Technology Branch 2645 Dollarton Hwy, North Vancouver, BC V7H 1B1, CANADA. (From February 2011-present)"Collaborating on sterols as indicators of faecal contamination in water system" (24 September 2010-present)
2. Associate Professor Dr Hafizan Juahir- Director of Environmental Research Institute of the East Coast (ESERI), Universiti Sultan Zainal Abidin (UniSZa).
3. Associate Professor Dr. Norkartini Abu Bakar, Faculty of Science, University Malaya.

PUBLICATIONS

Chapter in Book

Use of Enterococcus, BST and sterols as indicators for poultry pollution source tracking in surface and groundwater in Environmental Health Emerging Issues and Practice (2012) InTech, Rijeka, Croatia(ISBN 978-953-307-854-0)
Authors: Vesna Furtula, Charlene Jackson, **Rozita Osman** and Patricia Chambers.

Spatial Variation and Source Distribution of Organic Contaminants in Langat River Basin Malaysia using Chemometric Techniques. Mohamad Rafaie Mohamed Zubair, **Rozita Osman** and Norashikin Saim in From Source to Solution, Chapter 18, 2014, 95-99. Springer.com.

Books/Monographs

Rozita Osman, Norashikin Saim, Mardiana Saaid, Ruziyati Tajuddin. Analytical Separation Methods Laboratory Guide 3rd edition. UiTM Press (2019).

Rozita Osman, Norashikin Saim. Organic Contaminants in the Environment-Application for Pollution Tracking. VDM Verlag Dr. Müller GmbH & Co. KG, Germany (2011). (ISBN 978-3-639-36840-6).

Ruhani Ibrahim, Famiza Abd Latif, Yusairie Mohd, **Rozita Osman**, Haziah Jamaluddin. GENERAL Chemistry Experiments DIPLOMA PROGRAMME. (2007). UPENA. (ISBN 978-967-305-005-5).

Rozita Osman, Azlan Mohd Yusoff, Mohd Tahir Abas, Mazni Musa, Sharifah Rohaiza Syed Omar and Zaini Yusoff. Basic Chemistry (Pre-Science Series). McGraw-Hill (Malaysia) Sdn. Bhd (2006) ISBN 983-3219-40-3.

Rozita Osman, Azlan Mohd Yusoff, Mohd Tahir Abas, Rohana Atan and Zaini Yusoff. Asas Kimia, McGraw-Hill (Malaysia) Sdn. Bhd (2001) ISBN 983-9340-37-9.

Rozita Osman, Zurina Mahmud, Shamsul On and Zaini Yusoff. Kimia Asas II (PraSains II). Penerbitan Monograf dan Buku Teks Universiti Teknologi MARA Cawangan Perlis (2000).

Rozita Osman, Azlan Mohd Yusoff, Che Faridah Osman, Lim Boon Tik, Mohd Lias Kamal, Zaini Yusoff and Zurina Mahmud. Asas Kimia I (Edisi PraSains). Penerbitan Monograf dan Buku Teks ITM Cawangan Perlis (1996).

Articles in Refereed Journals

Almie Amira Munaras Khan, Norashikin Saim , Rossuriati Dol Hamid, **Rozita Osman** and Siti Raihan Zakaria. 2020. Varietal Discrimination of Pineapple (*Ananas Comosus L.*) Using Chromatographic Fingerprints and Chemometrics. *Indonesian Journal of Chemistry*, 20(5) 1052-1060. Q3

Syaidatul Faraha Zainuddin, Siti Raihan Zakaria, Norashikin Saim, Rossuriati Dol Hamid, **Rozita Osman**. 2020. Optimization of Headspace Solid Phase Microextraction (HS-SPME) for the Extraction of Volatile Organic Compounds (VOCs) in MD2 pineapple *Science Letter*, 14 (2) 61-73.

Husam I.S. Kafeenah, **Rozita Osman**, Nor K. Abu Bakar. 2019. Effect of Mobile Phase pH on the Electrospray Ionisation Efficiency and Qualitative Analysis of Pharmaceuticals in ESI^+ LC-MS/MS. *Journal of Chromatographic Science*. 57(8), 1-8. Q3

Husam I.S. Kafeenah, **Rozita Osman**, Nor K. Abu Bakar. 2018. Disk solid-phase extraction of multi-class pharmaceutical residues in tap water and hospital wastewater, prior to ultra-performance liquid chromatographic-tandem mass spectrometry (UPLC-MS/MS) analyses. *RSC Advances*, 8, 40358-40368. Q1

Husam I.S. Kafeenah, **Rozita Osman**, Nor K. Abu Bakar. 2018. UPLC-MS/MS screening method for simultaneous identification and characterisation of acidic and basic pharmaceuticals. *International Journal of Environmental Analytical Chemistry*. Q3

Siti Raihan Zakaria, Norashikin Saim, **Rozita Osman**, Zaibunnisa Abdul Haiyee, Hafizan Juahir. 2018. Combination of Sensory, Chromatographic, and Chemometrics Analysis of Volatile Organic Compounds for the Discrimination of Authentic and Unauthentic Harumanis Mangoes. *Molecules*, 23, 2365; doi:10.3390/molecules23092365. Q1

Raja Zubaidah Raja Sabaradin, Norashikin Saim, **Rozita Osman** and Hafizan Juahir. 2017. Classification of Car Paint Primers Using Pyrolysis-Gas Chromatography-Mass Spectrometry (Py-GC-MS) and Chemometric Techniques. *Pertanika J. Sci. & Technol*. 25 (S): 53 – 66.

Siti Norbayu Mohd. Subari, **Rozita Osman** and Norashikin Saim. 2017. Occurrence, Source Apportionment and Environmental Risk Assessment of Pharmaceuticals in Klang River, Malaysia. *Pertanika J. Sci. & Technol*. 25 (S): 119 – 128.

Nor Nasriah Zaini, Mardiana Saaid, Hafizan Juahir and **Rozita Osman**. 2017. Chromatographic Fingerprint and Chemometric Approach for Quality Control of Tongkat Ali (*Eurycoma longifolia*). *Pertanika J. Sci. & Technol*. 25 (S): 345 – 354.

Siti Norbayu Mohd Subari, **Rozita Osman**, Norashikin Saim. 2017. Direct Analysis of Six Pharmaceuticals using Online Solid Phase Extraction Liquid Chromatography. *American Journal of Applied Sciences, 14(5):517-525.*

Siti Raihan Zakaria, Ruziyati Tajuddin, **Rozita Osman**, Norashikin Saim and Mardiana Saaid. 2017. Optimization of Headspace Solid Phase Microextraction (HS-SPME) for the Extraction of Volatile Organic Compounds (VOCs) in Mangoes (*Harumanis* cv.) Using 2 Stages Multivariate Analysis. *Pertanika J. Sci. & Technol.* 25 (S): 167 – 174.

Siti Norbayu Mohd Subari, **Rozita Osman**, Norashikin Saim. 2017. Evaluation of Acetaminophen as Chemical Marker for Wastewater Contamination. *Science Letter, 11(2):11-19.*

Nor Nasriah Zaini, **Rozita Osman**, Hafizan Juahir and Norashikin Saim. 2016. Development of Chromatographic Fingerprints of Eurycoma longifolia (Tongkat Ali) Roots Using Online Solid Phase Extraction-Liquid Chromatography (SPE-LC). *Molecules*, 21, 583; doi:10.3390/molecules21050583.

Rozita Osman, Norashikin Saim, Mardiana Saaid, Nor Nasriah Zaini. 2016. An Experimental Design Method for the Extraction of Eurycomanone from Tongkat Ali (*Eurycoma longifolia*) Roots using Pressurised Liquid Extraction (PLE). *Malaysian Journal of Analytical Sciences*, Vol 20 No 2, 342 – 350.

Mohamad Rafaie Mohamed Zubir , **Rozita Osman**, Norashikin Saim. 2016. Chemometric Analysis of Selected Organic Contaminants in Surface Water of Langat River Basin. *Malaysian Journal of Analytical Sciences,* Vol 20 No 2, 278 – 287.

Nur Awatif Rosli, **Rozita Osman**, Norashikin Saim, Mohd Zuli Jaafar. 2015. Application of Chemometric Techniques to Colorimetric Data in Classifying Automobile Paint *Malaysian Journal of Analytical Sciences*, Vol 19 No 4,790 – 798.

Norshidah Baharuddin, Norashikin Saim, Md. Zain Sharifuddin, **Rozita Osman**, Hafizan Juahir, Siti Rafzah Saari. Characterization of Spatial Patterns in River Water Quality using Chemometric Techniques. 2014. Sains Malaysiana., 3(9),1355-1362. {Impact Factor: 0.298/SCOPUS/ISI}.

Nazarudin Ibrahim, **Rozita Osman**, Azmui Abdullah, and Norashikin Saim. 2014. Determination of Phthalate Plasticisers in Palm Oil using Solid Phase Extraction-Liquid Chromatography (SPE-LC). Journal of Chemistry, volume 2014{Impact Factor: 0.622/SCOPUS/ISI}.

R. Osman, N. Saim, H. Juahir and M. P. Abdullah. 2012. Chemometric Application in identifying sources of organic contaminants in Langat River Basin. *Environmental Monitoring and Assessment.* 184. 1001-1014.{Impact Factor: 1.679/SCOPUS/ISI}

R. Osman and N. Saim. 2013. Selective extraction of Organic Contaminants from Soil Using Pressurised Liquid Extraction. *Journal of Chemistry*, {Impact Factor: 0.622/SCOPUS/ISI}.

Licaberth Ismail, **Rozita Osman** and Norashikin Saim. 2013. Tandem Solid Phase Extraction for the Determination of Pharmaceuticals in Wastewater. *The Malaysian Journal of Analytical Sciences* 17(2)2): 262 – 271.

Mohamed Izzharif Abdul Halim, Norashikin Saim, **Rozita Osman,** Halila Jasmani, and Nurul Nadhirah Zainal Abidin. 2013. Discrimination of Black Ballpoint Pen Inks by High Performance Liquid Chromatography (HPLC). *The Malaysian Journal of Analytical Sciences* 17(2)2): 230-235.

Noraini Hamzah, **Rozita Osman** and Mohd Ambar Yarmo. 2013. An experimental design approach for the analysis of liquid phase products in water for hydrogenolysis of glycerol using immersed solid-phase microextraction. *The Malaysian Journal of Analytical Sciences* 17(1), 38-49.

Ku Madihah K.Y, Zaibunnisa, A. H., Norashikin, S., **Rozita, O**., Misnawi, J. 2013. Optimization of roasting conditions for high-quality Arabica coffee. International Food Research Journal 20(4):1623-1627.

Baharuddin Norshidah, Saim Norashikin, **Osman Rozita**, Md. Zain Sharifuddin, Juahir Hafizan, Saari Siti Rafzah. 2011. HPLC-ICP-MS Speciation Analysis of Arsenic in River Water of Sungai Kinta Malaysia. *Research Journal of Chemistry and Environment.* 15(4), 45-48 {Impact Factor: 0.292/SCOPUS/ISI}

Noraini Kasim, **Rozita Osman**,Norashikin Saim, Licaberth Ismail. 2012. Determination of Benzo[a]pyrene in Malaysian Commercialized Coffee Powder using Solid Phase Extraction and Gas Chromatography, *The Malaysian Journal of Analytical Sciences*, 16 (1): 39 – 42.

Norashikin Saim, **Rozita Osman**, Hurin Ain Wan Abi Sabian, Mohamad Rafaie Mohamed Zubir, Nazarudin Ibrahim . 2012. A Study on the Migration of Styrene from Polystyrene Cups to Drinks using Online Solid-Phase Extraction Liquid Chromatography (SPE-LC), *The Malaysian Journal of Analytical Sciences*, 16 (1): 49-55.

R. Osman, N. Saim, M. P. Abdullah. 2010. Organic Contaminants in Soil/Sediment as a Tracer for Pollution Sources. *Chemical Sciences Journal*, Volume 2010, CSJ-4. [E-ISSN:2150-3494, online].

N. Saim, **R. Osman**, D. R. S. Abg Spian, M. Z. Jaafar, H.Juahir, M. P. Abdullah and F. Ab Ghani. 2009. Chemometric Approach to Validating Faecal Sterols as Source Tracer for Faecal Contamination in Water. *Water Research,* 43, 2023-2030. {Impact Factor:5.323 SCOPUS/ISI}

R. Osman, N. Saim and M. P. Abdullah. 2009. Simultaneous Extraction of Organic Compounds with a Wide Polarity Range in Water Using Solid Phase Extraction Technique. *Research Journal of Chemistry and Environment* 13(3):7-18. {Impact Factor: 0.292/SCOPUS/ISI}

N. Saim, **R. Osman**, Z. Abdul Haiyee, S. Mohd Salleh. 2009. Simultaneous Extraction and Clean-up of Chlorpyrifos from Spinach (*Spinach oleracea*) Using Pressurised Liquid Extraction (PLE). *The Malaysian Journal of Analytical Sciences*, 13 (1): 8 – 11. {SCOPUS/ISI}

N. Saim, **R. Osman,** M. Mohamad**,** R. Dol Hamid. 2008. Simultaneous Extraction, Derivatization and Clean-up of Sterols from Soil using Accelerated Solvent Extraction. *The Malaysian Journal of Analytical Sciences* 12(2): 500-504. {SCOPUS/ISI}

R. Osman., N. Saim and M. P. Abdullah. 2008. Selective Accelerated Solvent Extraction for the Analysis of Polycyclic Aromatic Hydrocarbons and Sterols from Soil. *The Malaysian Journal of Analytical Sciences* 12(2): 352-356. {SCOPUS/ISI}

N. Saim, **R. Osman**, W. A. M. Yasin, R. D.Hamid. 2008. Subcritical water extraction of essential oil from coriander (*Coriandrum sativum* L.) seeds. *The Malaysian Journal of Analytical Sciences* 12 (1), 22-24. {SCOPUS/ISI}

N. Mamat Ghani, **R. Osman**, N. Saim, Z. Abdullah Munir. 2007. Accelerated Solvent Extraction Method with One-Step Clean Up For Hydrocarbons In Soil. *The Malaysian Journal of Analytical Sciences* 11 (1), 193-197. {SCOPUS/ISI}

D. R. S. Abang Spian, N. Saim, **R. Osman**, 2005. Solid Phase Extraction (SPE) of Sterols from Water. *The Malaysian Journal of Analytical Sciences*, 9(3): 582-585. {SCOPUS/ISI}

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International:

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National:

Z. Mahmud, R. Mohamad, L. Boon Tik, **R. Osman**, C. F. Osman and A. Mohd Yusoff. Kajian Awal ke atas Potensi ekstrak *Annona muricata*, *Piper betle* dan *Tinospora crispa*

sebagai racun botani dalam kawalan serangga pengorek batang pokok jagung-*Ostrinia salentialis Snell*. In Proceeding of Seminar on Medicinal and Aromatic Plants, Forest Research Institute of Malaysia. 12-13 September, 2000, FRIM, Kepong.

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Reports

Rozita Osman. "Kajian Awal ke Atas Keberkesanan Ekstrak Daun Durian Belanda (*Annona Muricata L*) sebagai kawalan Ulat Sawi" Final Project submitted to Bureau of Research and Consultancy (BRC), Universiti Teknologi MARA (2000).

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CO-CURRICULUM

Organization

Member of the Malaysian Institute of Chemistry (Institut Kimia Malaysia) 2005 – present
Member of the Malaysian Analytical Sciences Society (ANALIS), 2001 – present
Member of International Congress of Chemistry and Environment (AICCE) (2009-present).
Member of Badan Khairat Kematian Universiti Teknologi MARA, 2003 – present

Society/Community/University

Editor Tecnical Malaysian Journal of Applied Sciences (MyJAS).
Chairman - Committee Audit Final Year Examination Paper Faculty of Applied Sciences.

Chairman – Curriculum Review for Bachelor of Science (Hons) Chemistry (Forensic Analysis) year 2018, Faculty of Applied Sciences, UiTM.
Member, Parents and Teachers Association (PIBG) of Sekolah Kebangsaan Bandar Anggerik, Seksyen 6 Shah Alam. (2007–present).
Naib Pengerusi Badan Permuafakatan Kelas 5 Delima, Sekolah Kebangsaan Bandar Anggerik, Seksyen 6 Shah Alam. (Mac-November 2011)
Naib Pengerusi Badan Permuafakatan Kelas 2 Delima, Sekolah Kebangsaan Bandar Anggerik, Seksyen 6 Shah Alam. (Feb-November 2012)
AJK PIBG SESI 2014-2015 –SKBA SEKSYEN 6.

AWARDS

Gold Medal Award at Pameran Reka Cipta, Penyelidikan dan Inovasi Universiti Putra Malaysia (2010), "Chemometric Approach to Validating Faecal Sterols as Source Tracer for Faecal Contamination in Water from Langat River, Malaysia". Pusat Kebudayaan dan Kesenian Sultan Salahuddin Abdul Aziz Shah UPM Serdang . 20th-22nd July 2010.

Silver Medal Award at the 22nd International Invention, Innovation and Technology Exhibition ITEX 2011 (2011), "Chemometric Approach to Validating Faecal Sterols as Source Tracer for Faecal Contamination in Water from Mangat River, Malaysia" 20th-22nd May 2011.

Best PhD Thesis Award (Hadiah ANALIS 2011) "Analysis of Organic Contaminants in Water and Soil/Sediment: Method Development and the Application in Pollution Tracking" at the 24th Symposium of Analytical Chemistry Society, One Helang Hotel, Langkawi 21-23 November 2011.

Excellent Services Award (Anugerah Perkhidmatan Cemerlang UiTM 2011), 2011 (Sijil dan Hadiah Kecemerlangan), Universiti Teknologi MARA.

Best Paper Award - International Conference on Applied Sciences & Industrial Technology (ICASIT2015). "An Experimental Design Approach for the Extraction of Eurycomanone from Tongkat Ali (Eurycoma longifolia) Roots using Pressurised Liquid Extraction (PLE).

Silver Medal Award at Invention, Innovation and Design Exposition 2016 (IIDEX2016) (2016) "Chromatographic Fingerprint and Chemometric Approach for Authentication of Tongkat Ali (*Eurycoma longifolia*). 20-23 September 2016.

Best Paper Award- at 3rd International Conference on Science and Social Research 2016 "Chromatographic Fingerprint and Chemometric Approach for Authentication of Tongkat Ali (*Eurycoma longifolia*). The Evely Hotel Putrajaya 6-7 Disember 2016.

Excellent Services Award (Anugerah Perkhidmatan Cemerlang UiTM 2016), 2016 (Sijil dan Hadiah Kecemerlangan), Universiti Teknologi MARA.

Silver Medal Award at Invention, Innovation and Design Exposition 2017 (IIDEX2017) (2017) "Quality Control and Authenticity Pineapple *(Ananas comosus*) using Chromatographic fingerprints.

Gold Medal Award in International Engineering and Science Innovation Exhibition)- Penang 24 November 2018 and **"Best Novelty Award"** A Combination of GC-Fingerprint, Chemometrics and Sensory Analysis as a Powerful Tool for Harumanis Authentication.

Gold Medal Award in International Invention Creation Exhibition 2019 (IIICE 2019) 7 November 2019 Universiti Teknologi MARA Puncak Alam Campus.

Silver Medal Award at Invention, Innovation and Design Exposition 2020(IIDEX2020). Combination of GC-Fingerprint, Chemometrics and Sensory Analysis as the Poweful Tool for the Authentication of Harumanis Mango.

REVIEWER/ EVALUATION PANEL

a) JOURNAL'S REVIEWER (National and International)

b) RESEARCH GRANT

1. FRGS – University Level
2. INTERNAL GRANT (LESTARI AND GIP)

c) ACADEMICS ASSESSOR
Committee for MSc Chemistry Curriculum Review, Universiti Pendidikan Sultan Idris, Tanjung Malim.

THESIS EXAMINER

Internal examiner:

1. Siti Aesah Binti Abdullah- MSc
2. Mas Ezatul Nadiah Binti Mohd Ruah- MSc
3. Salim Tabish -MSc
4. Nur Zaimah Binti Zaini @ Othman –MSc
5. Sabarina Mohd Yunus – PhD
6. Non Daina Masdar – PhD
7. Ungku Amirul Ungku Abdullah-MSc
8. Md Suhaimi Elias-PhD

External examiner:

Naziruddin Bin Mat Ariffin (GS48250) – UNIVERSITI PUTRA MALAYSIA
Title: Migration Assessment and Modelling of Residual Styrene Monomer Migrated from Polystyrene Food Contact Materials into Various Foods