


## CURRICULUM VITAE

### PERSONAL DETAILS

Name	ChM. Ts. Dr Nor Suhaila Binti Mohamad Hanapi  
Born/Age	15 June 1976/44 Years old
Address	Faculty of Applied Sciences
Field of Specialization	Analytical Chemistry Chromatography/Separation Technology Green Chemistry Micro-extraction Development Environmental Chemistry
Tel No	Office: 03-55435744 Mobile: 012-6420620
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H index via scopus	Publications: (2013-2020) H-Index= 6

### ACADEMIC QUALIFICATION

#### Qualification), (Institution), (Year)

- PhD (Analytical Chemistry), ***Thesis Title: Two phase Micro-Electrodriven Membrane Extraction for the Analysis of Selected Antidepressants and Non-Steroidal Anti-Inflammatory Drugs***, Universiti Teknologi Malaysia, Skudai, Johor Bahru, Johor, Malaysia, 2016
- MSc (Chemistry), Universiti Kebangsaan Malaysia, 2008
- Bachelor (Hons) Applied Chemistry, Universiti Teknologi MARA, Shah Alam, Malaysia, 2002
- Dip. In Industrial Chemistry, Universiti Teknologi MARA, Shah Alam, Malaysia, 1998

### MEMBERSHIP OF PROFESSIONAL

#### (Organisation)

- Institut Kimia Malaysia, Associate Member, since 2010, M/3029/5839/10 (National)
- Persatuan Sains Analisis Malaysia, ANALIS (National). PPM-001-10-05031993
- American Chemical Society (ACS) -Membership-32061447(International)
- Member of Malaysia Board of Technologists (Professional Technologist) (Ts)

**CONSULTATION/EXPERTISE**

(Role), (Organization/ Company), (Start date), (End Date)

1. Penasihat/Perunding Chemical Exposure Monitoring Report. My Rescue Training Company (7-31 Oktober 2019).
2. Specialist. EP Engineering Sdn Bhd. RAPID Petronas, Pengerang, Johor, Malaysia. Chemical Exposure. (2020-2021).

**ADMINISTRATIVE DUTIES**

(Role), (Level), (Start date), (End Date)

- Pengerusi Jawatankuasa Anugerah Kualiti Naib Canselor, (i-AKNC), Fakulti Sains Gunaan. (15 Februari-14 Mac 2022).
- Pengerusi Jawatankuasa Penilaian Teknikal 4, Buku Teks Sains Tingkatan 5, Bahagian Sumber dan Teknologi Pendidikan, Kementerian Pendidikan Malaysia (15 Jun-25 Jun 2020)
- Resource Person, Kod CHM561-Quality in Analytical Measurement, (1 September 2018-present).
- Ahli Jawatankuasa Keselamatan dan Kesihatan Pekerjaan (JKKP), Fakulti Sains Gunaan, (1 Februari 2020-31 Disember 2021).
- Penyelaras Jawatankuasa 5S, Fakulti Sains Gunaan, (1 Februari 2020-31 January 2022).
- Exco Kebajikan Jawatankuasa Alumni, Fakulti Sains Gunaan, (1 April 2019 – 31 Mac 2021).
- Penasihat Persatuan Pelajar Forensik (FORSIS), (1 Januari 2020-31 Disember 2021).
- Ahli Kumpulan Inisiatif Penyelidikan, Entiti Kecemerlangan Tier 5 UiTM- Trace Analysis Research Group (16 April 2019 – 15 April 2021).
- Ahli Jawatankuasa Program "IUPAC Global Breakfast 2020" Pusat Pengajian Kimia dan Persekitaran (PPKP) (15 Januari-29 Februari 2020).
- Koordinator Program Bachelor (Hons) Chemistry (Forensic Analysis) and Environmental Technology (1 Ogos 2017- 31 Julai 2019).
- Jawatankuasa Kerja Majlis Kemuncak Bulan Inovasi UiTM 2019 (1 Mac -31 Disember 2019).
- Ahli Jawatankuasa Santifik da Penerbitan Symposium on Pure and Applied Chemistry (SyMPAC 2019) bagi "Asian Conference of Technology, Science and Innovation 2019".
- Fasilitator Program Pembangunan Kerjaya Peringkat Ijazah Sarjana Muda, Sesi September 2019-Januari 2020.
- Penyelaras Program Kimia Forensik- (1 Januari 2016- 31 Disember 2018).
- Panel Pembentangan Rancangan Penyelidikan –Bidang Environment Science and Management(19 Oktober 2018).
- Ahli Jawatankuasa Akreditasi *Royal Society Chemistry (RSC)*. (2 Januari 2018-31 Disember 2018).
- Guest Editor. Junior Science Communication, Volume 1:2019.
- Pencatit Minit Sesi Viva Pelajar Ijazah Sarjana, 9 Ogos 2019.
- Pembangunan Bahan Kursus Massive Open Online Courses (MOOC)- (April –Dis 2017).
- Pengerusi Jawatankuasa Alumni Mulai 1 April 2017 – 31 Mac 2018
- Ahli Kumpulan Inisiatif Penyelidikan, Entiti Kecemerlangan Tier 5 UiTM- Trace Analysis Research Group (15 Ogos 2017 – 15 April 2019).
- Pemantau Bilik Peperiksaan Akhir-(2017-2019)
- Panel Penilai Geran Penyelidikan Dalaman UiTM (Lestari dan GIP)-1 Apr 2017 – 31 Mac 2019
- Panel Penilai Geran Penyelidikan Dalaman Universiti Teknologi MARA (1 April 2017- 31 Mac 2019)

- Pengerusi dan Panel Penilai “Defense Research proposal” MSc-31 Oktober 2017
- Koordinator Projek 2 (FSG661) untuk program AS245, FSG, Sept 2016 – Sept 2018
- AJK Pengendali Bilik Gerakan Peperiksaan, FSG (Oktober 2016 – Mac 2018).
- Penasihat Akademik Pelajar AS253
- AJK Pengendali Bilik Gerakan Peperiksaan, FSG, Okt 2016 – Mac 2018
- Penasihat Akademik Pelajar AS253
- Setiausaha II Jawatankuasa Panel Penilai Pengiktirafan Program Kimia (RSC)
- AJK Pengendali Peperiksaan FSG Mulai 1 Nov 2016 – 30 Sept 2018
- AJK Kecemasan FSG mulai: Jan 2016-Dis 2017
- AJK Jawatankuasa Pelaksana Program Makan Malam Jubli Emas Alumni FSG 2017
- Pemeriksa/Penyedia Pertama Kertas Peperiksaan Akhir Jan 2018
- Pemeriksa Kedua Kertas Peperiksaan Jun 2017.
- Panel Pembentangan Latihan Industri (FSG602) Sept-Jan 2016
- Ahli Jawatankuasa International Nuclear Science, Technology & Engineering Conference 2016 (NuSTEC 2016).
- Pemeriksa Kertas Jawapan Peperiksaan Program Peralihan Pembantu Makmal ke Penolong Pegawai Sains UiTM Tahap 2A Tahun 2012.
- Penggubal soalan peperiksaan program Peralihan Pembantu Makmal ke Penolong Pegawai Sains UiTM Tahap 2A Tahun 2012
- Fasilitator Modul 6 (Pembinaan Bumiputera Glokal) Program Kemahiran Insaniah
- Fasilitator Program 1-CITIZEN UiTM Shah Alam, Kementerian Pengajian Tinggi) – Mulai Januari– Disember 2011.
- Ahli Jawatankuasa Pembangunan Pelajar (1 Jan-Disember 2012).

#### TEACHING EXPERIENCE

Lecturer in School of Chemistry and Environment, Bachelor in Chemistry (Forensic Analysis) (August 2008 –present)

List of the courses taught for the last 5 years

No	Year (Semester)	Courses	Code
1	SESI I 2020/2021	Quality in Analytical Measurement/Analytical Separation Methods	CHM561/CHM510
2	SESI II 2019/2020	Quality in Analytical Measurement/Analytical Separation Methods	CHM561/CHM510
3	SESI I 2019/2020	Quality in Analytical Measurement/Analytical Separation Methods	CHM561/CHM510
4	SESI II 2018/2019	Quality in Analytical Measurement/Analytical Separation Methods	CHM561/CHM510

5	SESI I 2018/2019	Quality in Analytical Measurement/Analytical Separation Methods	CHM561/CHM510
6	SESI II 2017/2018	Quality in Analytical Measurement	CHM561
7	SESI I 2017/2018	Quality in Analytical Measurement/Analytical Separation Methods	CHM561/CHM510
8	SESI II 2016/2017	Quality in Analytical Measurement/Analytical Chemistry	CHM561/CHM421
9	SESI I 2016/2017	Quality in Analytical Measurement/Analytical Chemistry	CHM561/CHM421

#### RECENT SELECTED PUBLICATIONS

##### A. Publication

[1] Nurzaimah Zaini @ Othman, **Nor Suhaila Mohamad Hanapi\***, Nor'ashikin Saim, Wan Nazihah Wan Ibrahim, Ahmad Lutfi Anis. Selective Determination of Acidic Drugs in Water Samples Using Online Solid Phase Extraction Liquid Chromatography with Alginate Incorporated Multi-Walled Carbon Nanotubes as Extraction Sorbent. *Indones. J. Chem.*, Vol 20 (5), 987-999, **2020**.

[2] Nurzaimah Zaini @ Othman, **Nor Suhaila Mohamad Hanapi\***, Wan Nazihah Wan Ibrahim, Sabiha Hanim Salleh. Alginate Incorporated Multi-Walled Carbon Nanotubes as Dispersive Micro Solid Phase Extraction Sorbent for Selective and Efficient Separation of Acidic Drugs in Water Samples. *Nature Environment and Pollution Technology*. Vol 19(3), 1155-1162, **2020**.

[3] Wan Nazihah Wan Ibrahim, Mohd Marsin Sanagi, **Nor Suhaila Mohamad Hanapi**, Nursyamsyila Mat Hadzir, Noorfatimah Yahaya, Sazlinda Kamaruzaman. Agarose-Chitosan-Integrated Multiwalled Carbon Nanotubes Film Solid Phase Microextraction Combined with High Performance Liquid Chromatography for the Determination of Tricyclic Antidepressants Drugs in Aqueous Samples. *Malaysian Journal of Analytical Science*. Vol 24, 33-41, **2020**.

[4] Salwani Md Saad , Nur Afiqah Aling , Mazidatulakmam Miskam , Mardiana Saaid , Nur Nadhirah Mohamad Zain , Sazlinda Kamaruzaman , Muggundha Raoov , **Nor Suhaila Mohamad Hanapi** , Wan Nazihah Wan Ibrahim and Noorfatimah Yahaya. Magnetic nanoparticles assisted dispersive liquid– liquid microextraction of chloramphenicol in water samples. *Royal Society Open Science*, Vol 7, (4), 1-11, Q1, **2020**.

[5] Nur Husna Zainal Abidin, Wan Nazihah Wan Ibrahim\*, **Nor Suhaila Mohamad Hanapi**, and Nor'ashikin Saim. Magnetic Mesoporous Silica Composite for Enhanced

Preconcentration of Selected Organophosphorus Pesticides. *Indones. J. Chem.*, Vol 20 (4), 729-745, **2020**.

[6] Mohammad Salim Tabish, **Nor Suhaila Mohamad Hanapi\***, Wan Nazihah Wan Ibrahim, Nor'ashikin Saim, Noorfatimah Yahaya. Alginate-Graphene Oxide Biocomposite Sorbent for Rapid and Selective Extraction of Non-Steroidal Anti-Inflammatory Drugs Using Micro-Solid Phase Extraction. *Indones. J. Chem.*, 684-695. **2019**.

[7] Ungku Amirul Arif Ungku Abdullah, **Nor Suhaila Mohamad Hanapi\***, Wan Nazihah Wan Ibrahim, Shafawani Saiful Azhar, Nur Syahirah Ishak, Rossuriari Dol Hamid. Rapid Magnetic Solid-Phase Extraction Based on Graphene Oxide/Magnetite Nanoparticles for the Determination of Non-Steroidal Anti-Inflammatory Drugs and Bisphenol-A in Tap Water. Vol 31(6) 1294-1300. **2019**

[8] Nurul Atikah Amin Yusof, Nursyamsyila Mat Hadzir, Siti Efliza Ashari, **Nor Suhaila Mohamad Hanapi**, Rossuriati Dol Hamid. (2019). Optimization of Enzymatic Synthesis of Betulinic Acid Amide in Organic Solvent by Response Surface Methodology (RSM). *Indones. J. Chem.*, 19 (4), 849 – 857, **2019**.

[9] Nur Husna Zainal Abidin, Wan Nazihah Wan Ibrahim and **Nor Suhaila Mohamad Hanapi**. (2019) Magnetic Solid phase Extraction Using Magnetic silica for Pre-concentration and Organophosphorus Pesticides, *International Journal of Recent Technology and Engineering (IJRTE)*. 6847-6852. **2019**.

[10] **Nor Suhaila Mohamad Hanapi**, Mohd Marsin Sanagi, Abd Khamim Ismail, Nor'ashikin Saim, Wan Nazihah Wan Ibrahim, Wan Aini Wan Ibrahim, Faridah Mohd Marsin. Rapid determination of non-steroidal anti-inflammatory drugs in aquatic matrices by two-phase micro-electrodriven membrane extraction combined with liquid chromatography, *Journal of Chromatographic Science*, 56(2), 166-176. **2018**.

[11] Wan Nazihah Wan Ibrahim, Mohd Marsin Sanagi, **Nor Suhaila Mohamad Hanapi**, Sazlinda Kamaruzaman, Noorfatimah Yahaya, Wan Aini Wan Ibrahim (2018) Solid-phase microextraction based on an agarose-chitosan-multiwalled carbon nanotube composite film combined with HPLC–UV for the determination of non-steroidal anti-inflammatory drugs in aqueous samples, *Journal of Separation Science*, 41, 2942–2951, **2018** (Q2, IF 2.42).

[12] Ungku Amirul Arif Ungku Abdullah, **Nor Suhaila Mohamad Hanapi**, Nor'ashikin Saim, Wan Nazihah Wan Ibrahim, Noorfatimah Yahaya. Micro-solid phase extraction ( $\mu$ -SPE) based on alginate/multi-walled carbon nanotubes sorbent for the determination of bisphenol A in canned fruits, *Chiang Mai Journal of Science*, 45(6), 2348-2360, **2018**. (Q3, IF 0.53).

[13] Muhammad Nur'Hafiz Rozaini, Noorfatimah Yahaya, Bahruddin Saad, Sazlinda Kamaruzaman, **Nor Suhaila Mohamad Hanapi**. Rapid ultrasound assisted emulsification micro-solid phase extraction based on molecularly imprinted polymer for HPLC-DAD determination of bisphenol A in aqueous matrices, *Talanta* (171), **2018**. 242-249 (Q1)

[14] Rossuriati Dol Hamid, Gordon M. Miskelly, Nursyamsyila Mat Hadzir, **Nor Suhaila Mohamad Hanapi**, Peter J. Swedlund (2018). From swollen gels to dried films: Relating the IR spectra of ferrihydrite dried as a film on an ATRIR crystal to aqueous suspensions. *Applied Geochemistry*, 91, 89-96, **2018**.

[15] W.N. Wan Ibrahim \*, N.H. Zainal Abidin, **N.S. Mohamad Hanapi**, N.F. Ab Malek, W.N.A. Wan Sudin , N. Saim , R. Rusmin. Adsorption Studies of Methylene Blue by Encapsulated Nano-Carbonaceous Alginate Beads *International Journal of Engineering & Technology*. Vol 7 (4.14), 210-215, **2018**.

[16] **Nor Suhaila Mohamad Hanapi**, Mohd Marsin Sanagi, Abd Khamim Ismail, Wan Aini Wan Ibrahim, Nor'ashikin Saim, Wan Nazihah Wan Ibrahim, Ionic liquid-impregnated agarose film two-phase micro-electrodriven membrane extraction (IL-AF- $\mu$ -EME) for the analysis of antidepressants in water samples, *Journal of Chromatography B*, 1046, 73-80. **2017**, (Q2, IF 2.729).

[17] Siti Farahiyah Ahmad Shater, Noorfatimah Yahya, Nur Nadhirah Mohamad Zain, Sharlina Mohamad, Farah Wahidah Mohd Hassan, Sazlinda Kamaruzaman, **Nor Suhaila Mohamad Hanapi**. Ultrasound-Assisted Surfactant Enhanced Emulsification Microextraction Method Coupled with GCMS for the determination of selected PAHs in aqueous samples. *Malaysian Journal of Analytical Sciences*, Vol 21 No 4, **2017**. (Q4, 0.31).

[18] **Nor Suhaila Mohamad Hanapi**, Mohd Marsin Sanagi, Nor'ashikin Saim , Wan Nazihah Wan Ibrahim , Nor Ain Jamaludin and Nursyamsyila Mat Hadzir. Ionic Liquid as Supported Liquid Membrane for Determination of Antidepressants from River Water. *Indian Journal of Science and Technology* Vol 9, (1), 1-5, **2016**.

[19] **Nor Suhaila Mohamad Hanapi**, Mohd Marsin Sanagi, Wan Aini Wan Ibrahim, Nor'ashikin Saim, Abd Khamim Ismail, Wan Nazihah Wan Ibrahim and Nur Diana Suhada Tahiruddin. Analysis of some anti-depressant drugs in aqueous samples using agarose film micro-electro driven membrane extraction, *Der Pharma Chemica*, 7(5), 235-242. **2015**.

[20] Wan Nazihah Wan Ibrahim, Mohd Marsin Sanagi, **Nor Suhaila Mohamad Hanapi** and Wan Aini Wan Ibrahim. Preparation of Chemically Stable Multi-Wall Carbon Nanotubes Reinforced Blended Agarose/Chitosan Composite Film, *Der Pharma Chemica*, 7(6), 353-356. **2015**.

[21] Mohammed Salisu Musa\*, Mohd Marsin Sanagi, Hadi Nur and **Nor Suhaila Mohamad Hanapi**. Room Temperature Amine Surface Modification of Synthesized Microporous Carbon Spheres. "Science Stays True Here" *Biological and Chemical Research*, 312-319. **2015**

[22] Mohd Marsin Sanagi, **Nor Suhaila Mohamad Hanapi**, Abd Khamim Ismail, Wan Aini Wan Ibrahim, Nor'ashikin Saim, Noorfatimah Yahaya. Two-phase electrodriven

membrane extraction combined with liquid chromatography for the determination of tricyclic antidepressants in aqueous matrices, *Analytical Methods*. 6(21) 8802-8809 (Q2, IF 1.9), **2014**.

[23] R., Norsyabilah, S. Sabiha Hanim\*, M. H., Nor Suhaila, A. Noraishah, A.K., Siti Kartina Subcritical Water Extraction of Monosaccharides from Oil Palm Fronds Hemicelluloses. *Malaysian Journal of Analytical Sciences*, Vol: 17 No 2, 272 – 275, **2013**.

[23] Hanim, S. S., Norsyabilah, R., **Suhaila, M. N.**, Noraishah, A., & Kartina, A. S. (2012). Effects of temperature, time and pressure on the hemicelluloses yield extracted using subcritical water extraction. *Procedia Engineering*, 42, 562-565, **2012**.

[25] **Nor Suhaila Mohamad Hanapi** and Siti Kartina Abdul Karim. Hotel Indoor Airborne Particulate Matter and Elemental Composition (2011). *Research Journal of Chemistry and Environment*. Vol.15 (2) June, **2011**.

#### Proceeding (International Conferences)

[1] Siti Kartina Abdul Karim and **Nor Suhaila Binti Mohamad Hanapi**. *International Symposium & Exhibition In Sustainable Energy & Environment*. 1 – 3 June 2011. Oil Sorption Capacity of Kapok Fiber. Ilion Legacy Hotel, Melaka. IEEE Catalog Number: CFP1108P-CDR ISBN: 978-1-4577-0341-6.

[2] Sabiha-Hanim S., Norazlina I., Noraishah A., **Nor Suhaila M.H.** *International Symposium & Exhibition In Sustainable Energy & Environment*. 1 – 3 June 2011. Reducing Sugar Production from Oil Palm Fronds and Rice Straw by Acid Hydrolysis.

[3] Zitty Sarah Ismail , Fairus Muhamad Darus , **Nor Suhaila Mohamad Hanapi** , Siti Mariam Sumari and Siti Nor Hafishah Ab. Wahab. Indoor Air Quality (IAQ) and Sick Building Syndrome (SBS) in Office building. Page 253. 1st Regional Health Sciences and Nursing Conference 2011. ISSN 978-967-363-212-1.

[4] Zitty Sarah Ismail , Fairus Muhamad Darus , **Nor Suhaila Mohamad Hanapi** , Ainul Hafiza Abdul Hair and Wan Nor Asilah Wan Nor Asmara. Mass Concentration and elemental composition of outdoor and indoor airborne particulate in residential environment. The 24th Regional Symposium of Malaysian Analytical Sciences (SKAM-24 (2011)).

[5] Siti Kartina Abdul Karim and **Nor Suhaila Mohamad Hanapi**. Conversion of Waste Cooking Oil (WCO) and Palm Fatty Acid Distillate (PFAD) to Biodiesel. 3rd International Symposium & Exhibition in Sustainable Energy & Environment (ISESEE) 2011, Page 42-22. ISSN 978-1-4577-0342-3.

[6] Noraishah Abdullah, Nazrizawati Ahmad Tajuddin, **Nor Suhaila Mohamad Hanapi**, Siti Kartina Abdul Karim, Zitty Sarah Ismail, Siti Mariam Sumari. Castor oil-oleic based

estolide ester as potential biolubricant. I-IDEA 2013: Empowering Research and Innovation Idea Towards Sustainable Economy.

[7] 21st Century: Biopolymers Composite As An Excellent Green Extraction Tools  
**Nor Suhaila Binti Mohamad Hanapi, Nor'ashikin Binti Saim, Nurzaimah Binti Zaini @ Othman, Wan Nazihah Binti Wan Ibrahim.** 2-145

**Chapters in Book**

[1] **Nor Suhaila Mohamad Hanapi, Noraishah Abdullah and Zitty Sarah Ismail.** Check Them Before Checking In. RIC News Page 14-15 (March 2011).

[2] Innovative Green Analytical Magnetic Solid Phase Extraction Technique Nur Husna Zainal Abidin, Ungku Amirul Arif Ungku Abdullah, Wan Nazihah Binti Wan Ibrahim, **Nor Suhaila Binti Mohamad Hanapi, Nursyamsyila Binti Mat Hadzir,** 2019, innovative green analytical magnetic solid phase extraction technique, Leading Towards Creativity & Innovative International Invention & Innovative Competition (InIIC).

[3] Advances Liquid Phase Micro-extraction (InPress) Publisher: Universiti Sains Malaysia. : “Penulis Bersama” (2020).

**AREAS OF RESEARCH**

No	Institution	Title	Amount	Status
1	Fundamental Research Grant Scheme (FRGS) (2019) (National)- <b>(Co-Researcher)</b>	Silica -enriched Extract from Oil Palm Biomass as a Potential Sorbent for Determination of Organophosphorus Pesticides through Online SPE and Magnetic SPE. Fundamental Research Grant Scheme (FRGS) (National)	RM 118.00	In Progress (2019-2022)
2	Fundamental Research Grant Scheme (FRGS) (2019) (National)- <b>(Project Leader)</b>	Polypyrole-Graphene Oxide nanocomposite Sorbent for Micro-Solid Phase Extraction of Tetracycline Antibiotics Residues in Aqueous Matrices	RM 102,900	In Progress (2019-2021)
3	Research Entity Initiative UiTM (University) <b>(Co-Researcher)</b>	Identification of Cost-Effective Indicator for Pharmaceuticals Contamination in Penchala River,	RM 20,000	In Progress (2018-2020)



4.	Fundamental Research Grant Scheme (FRGS) (National)-(2017) <b>(Project Member)</b>	Molecular recognition study of biopolymer porous- silica composite material towards non-steroidal anti-inflammatory drugs, Principle Researcher, 2017-2019, Fundamental Research Grant Scheme (FRGS) (National)	RM 66,780	In progress (2017-2019)
5.	Grant Lestari 2017 <b>(Project Member)</b>	Study on the occurrence of pharmaceuticals in selected Klang river tributaries, Co-Researcher, 2017-2019, Dana Kecemerlangan UiTM (University	RM 20,000	In progress (2017-2019)
6.	Grant Lestari 2017 <b>(Project Member)</b>	Synthesis Alginate Encapsulated Porous Silica Bio-Composite Sorbent For Rapid Microextraction of Inorganic Water Contaminants	RM20,000	In progress (2017-2019)
7.	Fundamental Research Grant Scheme (FRGS) (National)-2016. <b>(Project Leader)</b>	Alginate incorporated multi-walled carbon nanotube as potential nanocomposite biosorbent for on-line solid phase extraction to liquid chromatography analysis	RM72,000	Completed (2016- 2018)
8.	Grant Lestari 2016 Universiti <b>-(Project Leader)</b>	Alginate/Chitosan Incorporated with Multi-Walled Carbon Nanotubes As New Solid Phase Extraction Sorbent For Rapid and Efficient Separation of a Wide Polarity of Drugs.	RM32,000	Completed (2016- 2018)
9.	Geran Lestari 2016 <b>(Project Member)</b>	Green Synthesis of Betulinic Acid Amide for Anti-Cancer Drug	RM32,000	Completed (2016-2018)

10.	DANA 5/3/RIF (148/2012) <b>(Project Leader)</b>	Evaluation of Selenium Species from Medicinal Plants (MPS) in Malaysia by Ultrasound-Assisted Enzymatic Extraction Method.	RM32,000	Completed 2012-2014
11.	Dana Kecemerlangan <b>(Project Member)</b>	Analysis of Volatile Organic Compounds in car understatic conditions	RM32,000	Completed 2011-2013
12.	Fundamental Research Grant Scheme (FRGS) (National)-2010. <b>(Project Member)</b>	Physico-Chemical characterization of hemicelluloses from Oil Palm Fronds Subcritical Water Extraction	RM83,200	Completed 2010-2013
13.	Fundamental Research Grant Scheme (FRGS) (National)-2009 <b>(Project Member)</b>	Evaluation of Antihyperglycemic and Anti-Inflammatory Properties of Malaysian Rubiaceae and Correlation to their antioxidant potential	RM72,000	Completed 2009-2011
14.	Dana Kecemerlangan, UiTM- <b>(Project Leader)</b>	Analysis and Investigation of Indoor Air Quality (IAQ) Assessments in Hotels	RM10,000	Completed 2010-2011

**PRODUCTS AND INTELLECTUAL PROPERTY RIGHTS**

"Two-Phase in-Situ Electrodriven Extraction System for Drugs and Environmental Analysis". PI 2014 002627. Universiti Teknologi Malaysia, (2017).

**INNOVATION AWARDS**

(Title), (Event), (Date Presented), (Organiser), (Level)

1. A Green Microextraction Technique Using Nanomaterials Adsorbent As Valuable Tools for Elemental Speciation and Pharmaceutical Contaminants Analysis. The 9th International Innovation, Invention & Design Competition (INDES2020) UiTM, Perak Branch, **Gold Award**.
2. Innovative Green Analytical Magnetic Solid Phase Extraction Technique, International Invention Innovation (InIIC Series 1/2019). MNNF Network & MNNF Publisher. Mahkota Hotel, Malacca 27 April 2019, **Silver Award**.
3. 21st Century: Biopolymer Composite as an Excellent Green Extraction Tools, The 7th Invention, Innovation & Design Competition (INDES) 2018, Faculty of Computer and Mathematical Sciences and the Office of Research, Industrial

Linkages, Community and Alumni Network, UiTM, Perak Branch, **Gold Award, Best in Theme Award.**

4. 21<sup>st</sup> Century: Biopolymer Composite as an Excellent Green Extraction Tools, Invention, Innovation & Design Exposition (IIDEX) 2017, UiTM Shah Alam & IRMI, **Gold Award**
5. 21<sup>st</sup> Century: Biopolymer Composite as an Excellent Green Extraction Tools, Scientific Research Invention & Innovation Competition (SRIIC) 2017, FSG, UiTM Shah Alam, **Gold Award**
6. Rapid Two phase Micro-Electrodriven membrane Extraction System for the Analysis of Pharmaceuticals and Environment, International Invention & Innovative Competition (InIIC Series 1/2016), MNNF Network & MNNF Publisher, **Silver Award.**
7. Rapid Two phase Micro-EME of Pharmaceuticals from Aqueous Samples, 17<sup>th</sup> Industrial Art and Technology Exhibition (INATEX) 2015, UTM, Skudai, **Silver Award**
8. Utilization of carbon nanotubes as dispersive adsorbent for fungicides towards green chemistry. Innovation & Design Exposition (IIDEX) 2013-**Silver Award.**
9. Subcritical water extraction of oil palm fronds hemicellulose- (IIDEX 2013)-**Silver Award.**
10. Kapok Fiber as oil absorbent - (IIDEX) 2013- **Silver Award.**

#### TEACHING AND LEARNING INNOVATION

1. National e-Content Development Competition (eCONDEV 2020)-(MOOC entitled Achieving Quality and Excellent), **Bronze Award**-(11- 20 October 2020).
2. National e-Content Development Competition (eCONDEV 2020)-(MOOC entitled Are you Protected, **Silver Award**-(11- 20 October 2020).
3. National e-Content Development Competition (eCONDEV 2020)-(MOOC entitled Introduction to Organic Chemistry CHM412 and CHM413), **Bronze Award**-(11- 20 October 2020).
4. National e-Content Development Competition (eCONDEV 2020))-(MOOC entitled Quality in Analytical measurement), **Bronze Award**-(7 August 2019).
5. Pembentang MOOC (CHM561), FSG MOOC Day 2019. Fakulti Sains Gunaan, (28 August 2019).

#### POSTER

1. Nor Suhaila Mohamad Hanapi, Mohd Marsin Sanagi, Nor'ashikin Saim and Mardiana Saaaid. Dispersive –Micro-solid phase extraction using short multi-walled carbon nanotubes as sorbent for determination of epoxyconazole and hexaconazole in chillies and tomatoes by GC-ECD (2016).

#### ORAL PRESENTATION

1. Ionic liquid-impregnated AF-LPME combined with HPLC for the analysis of TCAs in aqueous sample (2017) 2<sup>nd</sup> International Conference on Fluids and Chemical Engineering (FluidsChe 2017) organized by Center of Excellence for Advanced research in Fluid Flow (CARIFF) UMP. 4-6 April 2017, Kota Kinabalu, Sabah.
2. Alginate Incorporated Multi-Walled Carbon Nanotubes as Dispersive Micro Solid Phase Extraction Sorbent for Selective and efficient separation of acidic drugs in aqueous matrices. Asia Pacific International Symposium on Microscale Separations and Analysis.2016, Johor Bharu, Malaysia.

3. Application of electrodriven membrane extraction to the analysis of non-steroidal anti-inflammatory drugs in water sample. The 3<sup>rd</sup> International Science Post Graduate Conference (ISPC 2015)-24-26 February (2015). Johor Bahru.
4. Ionic Liquid-Impregnated Agarose Film for electrodriven membrane extraction of Basic Drugs from Aqueous Matrices-The Twelfth Regional Annual Fundamental Science Symposium 2014 (RAFSS 2014)-8-10 September (2014).
5. Agarose Film-Electrodriven Membrane Extraction Combined with Liquid Chromatography for Quantification of Some Antidepressants Drugs- 27th Regional Symposium of Malaysia Analytical Sciences (SKAM27)-9 - 10 December 2014 at KSL Resorts, Johor Bahru, Malaysia. (2014)
6. Dispersive micro solid phase extraction using short multi walled carbon nanotubes as sorbent for the determination of epoxiconazole and hexaconazole fungicides in Chillies and Tomatoes by GC-ECD. 2013 IEEE Symposium on Humanities, Science and Engineering Research (SHUSER 2013).

#### CONFERENCE COMMITTEE

1. Asian Conference of Technology Science and Innovation, 2019, Symposium on Pure and Applied Chemistry-Chairperson (30-31 October 2019).
2. Ahli Jawatankuasa International Nuclear Science, Technology & Engineering Conference 2016 (NuSTEC 2016).

#### PANEL FOR ACADEMIC EXAMINER

##### A.DEFENCE RESEARCH PROPOSAL/PRE-VIVA ASSESSMENT

1. UiTM, Internal Examiner MSc Thesis, Pre-Viva Assessment, - Ahmad Talhah Bin Suhaimi. (18 September 2020).
2. UiTM, Internal Examiner MSc Thesis Deference Research Proposal, -Alif Fami Bin Aziz (2019)
3. UiTM, Internal Examiner MSc Thesis Deference Research Proposal, -Muhamad Isfaiz Bin Iskandar (2019)
4. UiTM, Internal Examiner MSc Thesis Deference Research Proposal, -Putri Nabihah Binti Abdul Khofar (2018)
5. UiTM, Panel for "Defense of PhD Proposal" Dyia Syaleyana Md Shukri (6 Feb 2020)
6. UiTM, Panel for "Defense of PhD Proposal" Norashikin Kamarudin (6 Feb 2020).

##### B. INTERNAL EXAMINER

1. Noramira Binti Saad. MSc. Nov 2019. Properties of Mesoporous Silica (SBA-15 and SBA 16)-Carbon Electrode (6 March 2020).
2. Nor Nasriah Binti Zaini. MSc. August 2019. Development of Chromatographic Fingerprint using online SPE liquid chromatography for quality assessment of *Eurycoma longifolia* (21 February 2020).

#### JURY

1. Jury – 2<sup>nd</sup> International Invention Innovation Technology Competition (ITeC2019). 19 November 2019- Seraya Hall, Acappella Suite Hotel, Shah Alam Selangor
2. Jury- International Invention & Innovative Competition (IniIC Series 2/2019)- 2 November 2019- Palace of the Golden Horses, Selangor.

**PAPER REVIEWER**

1. Reviewer in the Peer Review Process for Science Letters Manuscript ID SL-2020-13/2020. Universiti Teknologi MARA.
2. Reviewer ASM, Manuscript. Akademi Sains Negara.
3. Reviewer IJC, Manuscript ID: 60493. Indonesian Journal of Chemistry, 2020.
4. Reviewer, Journal of Chromatography A- Manuscript-JCA-19-1335. (Elsevier), (30 August 2019).
5. Reviewer, Food Analytical Methods- Manuscript-FNAM-D-19-00022, 2018.

**ACADEMIC AND RESEARCH AWARD/HONOUR**

**(Title of Award/Honour, Role, Award/Honour Authority, Level, Year)**

**Anugerah Perkhidmatan Cemerlang** 2018, Universiti Teknologi MARA

**Best Student Award** (Doctor of Philosophy) (Chemistry)-56<sup>th</sup> Convocation Ceremony 2016, School of Graduate Studies, Universiti Teknologi Malaysia.

**Merit thesis Award**, Doctor of Philosophy) (Chemistry)-56<sup>th</sup> Convocation Ceremony 2016, School of Graduate Studies, Universiti Teknologi Malaysia.

**Anugerah Insentif Penerbitan**, MyRA 2017

**UiTM scholarship for PHD** study at Universiti Teknologi Malaysia. (2012)

**UiTM scholarship for Master study** at Universiti Kebangsaan Malaysia, Malaysia (2008).

**SUPERVISION POST GRADUATE STUDENT (Name of Degree), (Name of Candidates), (Title of Thesis), (Academic Session)**

Name	Level of Study	Title	Status
Nur Zaimah Zaini @ Othman	PhD (Main Supervisor)	Polypyrrole -Graphene Oxide Nanocomposite Sorbent for Micro Solid Phase Extraction Antibiotics Residues in Aqueous Matrices	In Progress (Intake 2020)
Ungku Amirul Arif Ungku Abdullah	MSc (Main Supervisor)	Magnetic solid phase extraction based on graphene oxide/Fe <sub>3</sub> O <sub>4</sub> for the determination of tetracyclines and heavy metals in water	In Progress
Mohammad Salim Tabish	MSc (Main Supervisor)	Dispersive Micro-Solid Phase Extraction using Alginate/Graphene Oxide for the Determination of selected Non-Steroidal Anti-Inflammatory Drugs from Water Samples	Completed
Nur Zaimah Zaini@Othman	MSc (Main Supervisor)	Alginate incorporated multi-walled carbon nanotube as new sorbent for selective extraction of	Completed <b>(Pemenang Tesis Terbaik, Kategori)</b>

		non-steroidal anti-inflammatory drugs	<b><i>Ijazah Sarjana) Hadiah ANALIS, 2019, Peringkat Kebangsaan.</i></b>
Nur Husna Zainal Abidin,	MSc (Co-Supervisor)	Molecular recognition study of magnetic mesoporous silica materials towards organophosphate pesticides	Completed

**UNDERGRADUATE SUPERVISION****Completed**

1. Nonie Hayatie Binti Jasni (AS253) Microwave Assisted Micro-Solid Phase Extraction for Analysis of Tetracycline Antibiotics Residue in Fish Muscle Using Liquid Chromatography Analysis (2020).
2. Nurul Afifah Najwa Binti Azmi@Azni (AS253) Development Dispersive Micro-Solid Phase Extraction based on Micro and Nano Sorbent for the Analysis of Selected Polyaromatic Hydrocarbons (PAHs) in Green Tea Samples (2020).
3. Nuradilah Athirah Binti Kamarul Zaman (AS202) Recent Developments and Applications in Green Micro-Solid Phase Extraction for the Determination of Caffeine in Coffee Beverages (2020).
4. Nurfaezah Binti Abdullah (AS202) Development and Application of Carbon Based Nanomaterials Sorbent for Pre-Concentration and Separation of Caffeine using Dispersive Micro Solid Phase Extraction in Green Tea Samples Via Liquid Chromatography Analysis (2020).
5. Muhammad Widad Bin Sabab (AS253), Determination of BTEX Compounds in Indoor Air of Selected Factories with Head Space-Solid Phase Microextraction GC-FID Analysis (2019).
6. Wan Nurul Afiqah Binti Wan Samsuhaimi (AS253), Micro-Solid Phase Extraction Using C<sub>18</sub> Film for Extraction Polyaromatic Hydrocarbon in Dry Tea Samples (2019).
7. Nur Farahana Binti Norazman. (AS253). Determination of Polycyclic Aromatic Hydrocarbons (PAHs) in Dry Tea by Rapid Magnetic Solid Phase Extraction based on Magnetite Nanoparticles (MNPs) coupled with HPLC-DAD (2019).
8. Widad Bt Safie. (AS202). Separation and Pre-Concentration of Lead (Pb) and Cadmium (Cd) in Water Samples using MSPE and their Determination by ICP-OES (2019).
9. Nursyahida Bt Muhammad Faizal Alvin (AS202). Magnetic Dispersive Solid Phase Extraction (M-SPE) based on Magnetite nanoparticles (MNPs) for Determination of Tetracycline in Water Samples (2019).
10. Nur Amirah Rusdin. (AS253). Determination of Methanol in the Chemical Laboratory using Ultrasonic Assisted Head SpaceSolidPhase Microextraction GC-FID Detector (2018).
11. Nur Syazwani Sapri (AS253). Determination of Dichloromethane in the Chemical Laboratory using Ultrasonic Assisted Head SpaceSolidPhase Microextraction GC-FID Detector (2018).

12. Nur Syahirah Bt Ishak (AS253). Rapid Magnetic SPE Based on MNPs for determination of BPA in Water samples (2018).
13. Shafawani Bt Saiful Azhar (AS253). Rapid Magnetic SPE Based on MNPs for determination of tetracyclines antibiotics in Water samples (2018).
14. Farah Afeeza Binti Abu Zaki (AS253). Magnetic D-SPE for Trace NSAIDs in Water sample (2018).
15. Norfazira Bt Omar (AS253). Magnetic Dispersive micro SPE for BPA (2018).
16. Wan Nurul Syafiqah Nadia Binti W Zulkifle- Analysis of Acetaminophen in human urine sample by dispersive liquid-liquid microextraction (DLLME) coupled with liquid chromatography (2017).
17. Noraishah Abdul Razak (AS253). Micro-solid phase extraction coupled with HPLC for the determination of acetaminophen drugs in human urine samples (2017).
18. Noordiyana Binti Sa'aban (AS253). Two steps microextraction technique of micro solid phase extraction coupled with HPLC-DAD for the analysis of bisphenol-A. From aqueous matrices (2017).
19. Nursyahirah Bt Asnur (AS253) Micro solid phase extraction ( $\mu$ -SPE) method based on alginate-GO for the analysis of BPA (2017).
20. Nurul Idayu Bt Mohammad Isa (AS253). Micro solid phase extraction based on graphene oxide for the determination of bisphenol-A from canned fruits (2017).
21. Siela Adila Khairani Bt Zaina Salleh. (AS253). Chitosan-graphene oxide composite film using liquid phase microextraction combined with HPLC-DAD for the determinación of bisphenol-A (2017).
22. Wan Luqman Bin Wan Abd Rahim. (AS253). Micro solid phase extraction based on multi-walled nanotubes (MWCNTs) sorbent for the analysis of tetracyclines antibiotics in aqueous samples (2017).
23. Nurul Atiqah binti Abu Bakar (AS245)- Dispersive Micro Solid Phase Extraction of Polycyclic Aromatic Hydrocarbons (PAHs) in Green Tea Beverage Samples with the aid of Response Surface Methodology and Central Composite Design (2017).
24. Syaura Azmi Binti Amraa. (AS245). Determination of polycyclic aromatic (PAH) in green tea sample using dispersive liquid-liquid microextraction and HPLC with the aid of response surface methodology and experimental design (2017).
25. Fara Naquiyah Maulad (AS253). Membrane protected Alginate/Graphe Oxide beads as a novel sorbent for non-steroidal anti-inflammatory drugs (NSAIDs) in water sample (2017).
26. Nurul Hanani Binti Baharin(AS253). Hollow fiber liquid phase micro extraction (HF-LPME) combined technique with HPLC-DAD for the analysis of acetaminophen in wastewater samples (2017).
27. Ros Syazwani Bt Rabuan (AS253). Dispersive liquid-liquid microextraction for the analysis of NSAIDs (2017).
28. Abdul Aziz Norman (AS202) Dispersive micro Solid Phase Extraction (D- $\mu$ -SPE) using Ag-CNTs adsorbent coupled with Gas Chromatography-Flame Ionization Detector (FID) technique in aqueous matrices for selected Polyaromatic Hydrocarbon analysis (2017).
29. Najibulla Bin Romainor (AS245) Membrane Protected Micro-Solid Phase Extraction ( $\mu$ -SPE) for the determination of phenolic compounds in sewage water sample (2016).

30. Nurul Bahiyah Binti Rosli (AS245) Agarose film liquid phase microextraction for the analysis of NSAIDs in water samples (2016).
31. Siti Hasmah Mustafa (AS245) Magnetic Solid Phase Extraction (MSPE) for the Determination of Triazole Fungicides (2016).

**CONTRIBUTION TO SOCIETY (Contribution to Society), (Level)**

1. Peserta “Program “63” Kayuhan Merdeka Pewani. 28 Ogos 2020, UiTM Cawangan Selangor, Kampus Puncak Alam.
2. Tetamu Jemputan Panel Pakar Forensik Bagi Penerbitan Video Dokumentari Bertajuk “Makmal Forensik (13 Episod x 30) Terbitan Radio Televisyen Malayisa (RTM)-2020.
3. Peserta TOT Modul Pembangunan Kerjaya, Fakulti Sains Gunaan, 29 Oktober 2019)
4. Petugas Booth Pameran Hari Bertemu Pelanggan, Fakulti Sains Gunaan, 2019.
5. Ahli Jawatankuasa Program Jaringan Alumni Raya Fakulti Sains Gunaan 2019, 29 Jun 2019.
6. Tetamu/pensyarah jemputan di Majlis Annual Grand Meeting 2019, Persatuan Kimia Forensik, 12 Oktober 2019.
7. Penceramah di Karnival Kimia Malaysia di Pusat Sains Negara.
8. Bamboo Badminton Open  
(Dewan Serbaguna, UiTM Cawangan Selangor, Kampus Puncak Alam)  
15 April 2017 (Tempat Ke-empat)-Bergu.
9. Pemain badminton –Chill-lah FSG Anjuran Persatuan Alumni dan Persatuan Pelajar Kimia Forensik (FORSIS)
10. Pemain Badminton SASSA 2018, 2019 Fakulti Sains Gunaan
11. Pemain Bola Jaring SASSA 2016-2019.
12. Pemain Bola Tampar SASSA 2019.
13. AJK Program Karnival Berkembar : WIN2B7 Ceria Menawan & Anugerah Israk Mikraj
14. Ahli Pewani UiTM Shah Alam
15. Ketua Biro Sukan 2B7 (Perumahan)
16. Peserta Kejohanan bolajaring Piala YDO MDKS 2017 (2012)
17. Khidmat Masyarakat Rumah Tunas Harapan Kuala Selangor (2011)
18. Ahli We-Share Puncak Alam

**REFEREE**

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