



CURRICULUM VITAE



FACULTY OF APPLIED SCIENCES

A. PERSONAL PARTICULAR

i. PERSONAL DETAILS

Name : ChM. Ts. Dr. Wan Nazihah Wan Ibrahim

Office Address : Faculty of Applied Science,
Universiti Teknologi MARA,
40450 Shah Alam, Selangor, Malaysia

Current Positions : Senior Lecturer

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ii. EDUCATIONAL BACKGROUND

YEAR	DETAILS	SCHOLARSHIP
2016	Doctor of Philosophy (Chemistry) , Universiti Teknologi Malaysia, Johor, Malaysia	Skim Latihan Bumiputera (SLAB)
2008	Master of Science (Chemistry) , Universiti Teknologi Malaysia, Johor, Malaysia	National Science Fellowship (NSF)

2005	Bachelor of Science (Chemistry) , Universiti Teknologi Malaysia, Johor, Malaysia	Jabatan Perkhidmatan Awam (JPA)
2000	Sijil Pelajaran Malaysia (SPM), MRSM Beseri Perlis (7A)	-

iii. PROFESSIONAL AFFILIATIONS (MEMBER)

- Institut Kimia Malaysia, Associate Member, since 2010, M/2968/5766/10 (National)
- Persatuan ANALIS, Member, since 2015, No ahli L487 (National)
- MBOT, Green Technologist, since Aug 2019, PT19080010 (National)

iv. RESEARCH INTEREST AND FIELD OF EXPERTISE

- Material Chemistry (biodegradable, biomass)
- Inorganic Chemistry (catalysis, inorganic, organometallic)
- Analytical Chemistry (extraction, separation, chromatography, validation method)

v. LIST OF SUBJECTS TAUGHT IN UNIVERSITY

- Chemistry I: Pre-Degree (CHM091)
- Chemistry II: Pre-Degree (CHM095)
- General Chemistry (CHM420)
- Analytical Chemistry (CHM421)
- Inorganic Chemistry (CHM475)
- Analytical Separation Methods (CHM510)
- Quality in Analytical Measurement (CHM561)
- Quality Control & Assurance (CMT651)
- Forensic Chemical Analysis (FRS651)

vii. AWARDS AND RECOGNITIONS

- Basic first aider certificate Persatuan Bulan Sabit Merah Malaysia, 2020 - 2023
- Excellence Service Award, Universiti Teknologi MARA, Shah Alam, 2017, (University)
- Digital Etiquette Certification IC Citizen, Certiport Incoorporation, Prestariang Systems Sdn Bhd dan Malaysia National ICT Initiative, 2012
- Pengajaran Cemerlang untuk SUFO, 2014

B. RESEARCH GRANT

NO	RESEARCH GRANT / ROLE	PERIOD / STATUS	TYPE	AMOUNT
1.	Silica-Enriched Extract from Oil Palm Biomass as a Potential Sorbent for Determination of Organophosphorus Pesticides through Online Solid Phase Extraction and Magnetic Solid Phase Extraction. Leader: Dr Wan Nazihah Wan Ibrahim	2019 Sept – 2022 Nov	FRGS (National)	RM 118,200

	Members: Dr. Nor Suhaila Mohamad Hanapi, Nordiana Suhada Mohmad Tahiruddin, PM Dr. Roswanira Ab Wahab (UTM)			
2.	Polypyrrole-Graphene Oxide Nanocomposite Sorbent for Micro-Solid Phase Extraction of Tetracycline Antibiotics Residues in Aqueous Matrices Leader: Dr. Nor Suhaila Mohammad Hanapi Members: Dr Wan Nazihah Wan Ibrahim, Nordiana Suhada Mohmad Tahiruddin, Dr Muzamir Mahat, Prof Dr. Norashikin Saim	2019 Jan – 2022 Mac	FRGS (National)	RM 102,900
3.	Identification of Cost-Effective Indicator for Pharmaceuticals Contamination in Penchala River Leader: Dr Rossuriati Dol Hamid Members: Dr. Wan Nazihah Wan Ibrahim, Dr. Nor Suhaila Mohamad Hanapi, PM Dr Rozita Osman	2018 Sep – 2021 Feb	REI UiTM (University)	RM 32,000
4.	Molecular recognition study of biopolymer porous silica composite material towards non-steroidal anti-inflammatory drugs Leader: Dr. Wan Nazihah Wan Ibrahim Members: Dr. Nor Suhaila Mohamad Hanapi, Nordiana Suhada Mohmad Tahiruddin, Prof Dr. Norashikin Saim	2017 Aug – 2019 Aug (Completed)	FRGS (National)	RM 66,780
5.	Synthesis alginate encapsulated porous silica bio-composite sorbent for rapid microextraction of inorganic water contaminants Leader: Dr Wan Nazihah Wan Ibrahim Members: Dr Nor Suhaila Mohamad Hanapi, Dr Rossuriati Dol Hamid	2017 Jul – 2019 Jun (Completed)	LESTARI (University)	RM 20,000
6.	Study on the occurrence of pharmaceuticals in selected Klang river tributaries Leader: PM Dr Rozita Osman Members: Dr Wan Nazihah Wan Ibrahim, Dr Nursyamsyila Mat Hadzir, Dr Nor Suhaila Mohamad Hanapi, Dr Rossuriati Dol Hamid	2017 Jul – 2019 Jun (Completed)	LESTARI (University)	RM 20,000
7.	Alginate incorporated multi-walled carbon nanotube as potential nanocomposites biosorbent for on-line solid phase extraction to liquid chromatography analysis Leader: Dr Nor Suhaila Mohamad Hanapi	2016 Aug – 2018 Jul (Completed)	FRGS (National)	RM 72,000

Member: Prof Dr Norashikin Saim, Dr
Mardiana Said, Dr Rossuriati Dol Hamid, Dr
Wan Nazihah Wan Ibrahim

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| 8. | Synthesis, characterization and catalytic testing of aminopropylated porous silica materials from power plant bottom ash
Leader: Hamizah Md Rasid
Membes: Wan Nazihah Wan Ibrahim, Dr Karimah Kassim | 2013 Nov –
2015 Nov
(Completed) | FRGS
(National) | RM 90,500 |
| 9. | Synthesis and characterization of new hybrid catalytic metal organic framework with nitrogen containing ligands via post-synthetic thermolysis method
Leader: Wan Nazihah Wan Ibrahim
Members: Dr Karimah Kassim, Prof Dr. Hadariah Bahron | 2013 Nov –
2015 Nov
(Completed) | FRGS
(National) | RM 77,000 |
| 10. | Catalytic properties of thermally stable heterogeneous metal organic frameworks
Leader: Wan Nazihah Wan Ibrahim
Members: Dr Karimah Kassim | 2012 Dec –
2014 Nov
(Completed) | DANA RIF
(University) | RM 32,000 |
| 11. | Bidentate schiff base series: synthesis and characterization of Palladium(II) complexes as catalysts for Heck and Suzuki cross-coupling reactions
Leader: Prof. Dr. Hadariah Bahron
Members: Wan Nazihah Wan Ibrahim, Amalina Mohd Tajuddin | 2011 Dec –
2013 Nov
(Completed) | DANA RIF
(University) | RM 10,000 |
| 12. | Heterogeneous catalysts form thiourea complexes encapsulated onto functionalized mesoporous
Leader: Hamizah Md Rasid
Membes: Wan Nazihah Wan Ibrahim, Shadatul Hanom Rashid, Adibatul Husna Fadzil | 2010 Mac –
2012 Feb
(Completed) | FRGS
(National) | RM 49,600 |
| 13. | Investigation of Palladium(II) and Titanium(II) complexes as novel heterogeneous catalysts mounted on carbon nanotubes and mesoporous materials
Leader: Wan Nazihah Wan Ibrahim
Members: Prof. Dr Hadariah Bahron, Hamizah Md Rasid | 2009 Aug –
2011 Aug
(Completed) | FRGS
(National) | RM 41,000 |

TOTAL RM 613,780

C. PUBLICATIONS

i. JOURNAL (SCOPUS/WOS)

1. Nur Zaimah Othman, Nor Suhaila Mohamad Hanapi Norashikin Saim, **Wan Nazihah Wan Ibrahim**, Ahmad Lutfi Anis (2020) 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, *Indonesian Journal of Chemistry*, 20(5), 987-999, ISSN 1411-9420 (**Scopus Q3**).
2. Nur Zaimah Othman, Nor Suhaila Mohamad Hanapi, **Wan Nazihah Wan Ibrahim**, Sabiha Hanim Saleh (2020) 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*, 19 (3), 1155-1162 e-ISSN 23953454 (**Scopus Q4**).
3. Nurul Ain Safiqah Md Sandollah, Sheikh Ahmad Izaddin Sheikh Mohd Ghazali, **Wan Nazihah Wan Ibrahim**, and Ruhaida Rusmin (2020) Adsorption-Desorption Profile of Methylene Blue Dye on Raw and Acid Activated Kaolinite, *Indonesian Journal of Chemistry*, 20(4), 755-765, ISSN 1411-9420 (**Scopus Q3**).
4. Nur Husna Zainal Abidin, **Wan Nazihah Wan Ibrahim***, Nor Suhaila Mohamad Hanapi, and Nor'ashikin Saim (2020) Magnetic Mesoporous Silica Composite for Enhanced Preconcentration of Selected Organophosphorus Pesticides in Fruits, *Indonesian Journal of Chemistry*, 20(4), 729-745, ISSN 1411-9420 (**Scopus Q3**).
5. 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 (2020) Magnetic nanoparticles assisted dispersive liquid-liquid microextraction of chloramphenicol in water samples, *Royal Society Open Science*, 7: 200143, E-ISSN 2054-5073 (**Scopus Q1**).
6. **Wan Nazihah Wan Ibrahim***, Mohd Marsin Sanagi, Nor Suhaila Mohammad Hanapi, Nursyamsyila Mat Hadzir, Noorfatimah Yahaya, Sazlinda Kamaruzaman (2020) Agarose-Chitosan-Integrated Multiwalled Carbon Nanotubes Film Solid Phase Microextraction Combined with High Performance Liquid Chromatography for The Determination of Tricyclic Antidepressant Drugs in Aqueous Samples, *Malaysian Journal of Analytical Sciences*, 24(1), 33-41 (**Scopus Q4**).
7. Nur Husna Zainal Abidin, **Wan Nazihah Wan Ibrahim***, Nor Suhaila Mohamad Hanapi (2019), Magnetic Solid Phase Extraction using Magnetic Mesoporous Silica for Preconcentration of Organophosphorus Pesticides, *International Journal of Recent Technology and Engineering (IJRTE)*, 8(4), 6847-6852 (**Scopus Q4**).
8. Ungku Amirul Arif Ungku Abdullah, Nor Suhaila Mohamad Hanapi, **Wan Nazihah Wan Ibrahim**, Shafawani Saiful Azhar, Nur Syahirah Ishak, Rossuriati Dol Hamid (2019), 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, *Asian Journal of Chemistry*, 31(6), 1294-1300. <https://doi.org/10.14233/ajchem.2019.21899> ISSN:0970-7077 (**Scopus Q4**).
9. Mohammad Salim Tabish, Nor Suhaila Mohamad Hanapi, **Wan Nazihah Wan Ibrahim**, Nor'ashikin Saim, Noorfatimah Yahaya (2019), Alginate-Graphene Oxide Biocomposite Sorbent for Rapid and Selective Extraction of Non-Steroidal Anti-Inflammatory Drugs Using Micro-Solid Phase Extraction, *Indonesian Journal of Chemistry*, 19(3), 684-695 (**Scopus Q3**).
10. **Wan Nazihah Wan Ibrahim***, Nur Husna Zainal Abidin, Nor Suhaila Mohamad Hanapi, Nurul Fadlisa Ab Malek, Wan Nur Athirah Wan Sudin, Norashikin Saim, Ruhaida Rusmin (2018) Adsorption Studies of Methylene Blue by Encapsulated Nano-Carbonaceous Alginate Beads, *International Journal of Engineering & Technology*, 7 (4.14) 210-215 (**Scopus Q4**).

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, DOI:10.1002/jssc.201800064 (**Scopus Q2**).
12. Ungku Amirul Arif Ungku Abdullah, Nor Suhaila Mohamad Hanapi, Nor'ashikin Saim, **Wan Nazihah Wan Ibrahim**, Noorfatimah Yahaya (2018) Micro-solid phase extraction (μ -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 (**Scopus Q3**).
13. Nor Suhaila Mohamad Hanapi, Mohd Marsin Sanagi, Abd Khamim Ismail, Nor'ashikin Saim, **Wan Nazihah Wan Ibrahim**, Wan Aini Wan Ibrahim, Faridah Mohd Marsin (2018) 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 (**Scopus Q3**).
14. Sazlinda Kamaruzaman, Mohd Marsin Sanagi, Noorfatimah Yahaya, Wan Aini Wan Ibrahim, Salasiah Endud, **Wan Nazihah Wan Ibrahim** (2017) Magnetic micro-solid phase extraction based on magnetite-MCM41 with gas chromatography-mass spectrometry for the determination of antidepressant drugs in biological fluids, *Journal of Separation Science*, 40, 4222-4233. DOI: 10.1002/jssc.201700549 (**Scopus Q2**).
15. Abdulganiyu Umar, Mohd Marsin Sanagi, Ahmedy Abu Naim, **Wan Nazihah Wan Ibrahim**, Aemi Syazwani Abdul Keyon, Wan Aini Wan Ibrahim (2017) Removal of orange G from aqueous solution by polystyrene-modified chitin, *Jurnal Teknologi*, 79:7, 91-99, eISSN 2180-3722 (**Scopus Q3**).
16. Nor Suhaila Mohamad Hanapi, Mohd Marsin Sanagi, Abd Khamim Ismail, Wan Aini Wan Ibrahim, Nor'ashikin Saim, **Wan Nazihah Wan Ibrahim** (2017) Ionic liquid-impregnated agarose film two-phase micro-electrodriven membrane extraction (IL-AF- μ -EME) for the analysis of antidepressants in water samples, *Journal of Chromatography B*, 1046, 73-80. (**Scopus Q2**).
17. Nyuk Ting Ng, Mohd Marsin Sanagi, **Wan Nazihah Wan Ibrahim** and Wan Aini Wan Ibrahim (2017) Agarose-chitosan-C18 film micro-solid phase extraction combined with high performance liquid chromatography for the determination of phenanthrene and pyrene in chrysanthemum tea samples, *Food Chemistry*, 222, 28-34 (**Scopus Q1**).
18. Mohd Marsin Sanagi, Saw Hong Loh, **Wan Nazihah Wan Ibrahim**, Neda Pourmand, Ahmed Salisu, Wan Aini Wan Ibrahim and Imran Ali (2016) Agarose and alginate based biopolymers for sample preparation: Excellent green extraction tools for this century, *Journal of Separation Science*, 39, 1152-1159 (**Scopus Q2**).
19. **Wan Nazihah Wan Ibrahim***, Mohd Marsin Sanagi, Nor Suhaila Mohamad Hanapi and Wan Aini Wan Ibrahim (2015) Preparation of Chemically Stable Multi-Wall Carbon Nanotubes Reinforced Blended Agarose/Chitosan Composite Film, *Der Pharma Chemica*, 7(6), 353-356 (**Scopus Q3**).
20. 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 (2015) Analysis of some anti-depressant drugs in aqueous samples using agarose film micro-electro driven membrane extraction, *Der Pharma Chemica*, 7(5), 235-242 (**Scopus Q3**).
21. Amalina Mohd Tajuddin, Hadariah Bahron, Karimah Kassim, **Wan Nazihah Wan Ibrahim** and Bohari M.Yamin (2012) Synthesis And Characterisation of Palladium(II) Schiff Base Complexes and Their Catalytic Activities for Suzuki Coupling Reaction, *The Malaysian Journal of Analytical Science*. Vol 16, No 1: 79-87, ISSN 13942506 (**Scopus Q4**).
22. **Wan Nazihah Wan Ibrahim***, Mustaffa Shamsuddin and Bohari M. Yamin (2007) N,N'-bis-(5-Methyl-Methylsalicylidene)-2,2-Dimethylpropane-1,3-Diamine Palladium(II) : Catalyst For

ii. JOURNAL (INDEXES)

1. Siti Nurhazlin Jaludin, Karimah Kassim and **Wan Nazihah Wan Ibrahim** (2015) Mixed linker metal organic framework as an efficient and reusable catalyst for Suzuki Miyaura Coupling reaction, *Procedia Chemistry*, 16, 8-14. (ISSN 18766196).
 2. Amalina Mohd Tajuddin, Hadariah Bahron, Karimah Kassim and **Wan Nazihah Wan Ibrahim** (2014) Pd(II) Complexes with Nitrogen-oxygen Donor Ligands: Synthesis, Characterization and Catalytic Activity for Suzuki-Miyaura Cross-coupling Reaction, *Asean Journal on Science and Technology for Development*, 31(1), 15-23. (ISSN 0217-5460, IF 0.14).
 3. Hadariah Bahron, Amalina Mohd Tajuddin, **Wan Nazihah Wan Ibrahim**, Hoong-Kun Fun and Suchada Chantrapromma (2014) Crystal structure of bis{2-[(E)-(4-methoxybenzyl)iminomethyl]phenolato-κ²N,O1}nickel(II), *Acta Crystallography Section E*, E70, 104-106. (ISSN 16005368, Q3, 0.18).
 4. Hadariah Bahron, Amalina Mohd Tajuddin, **Wan Nazihah Wan Ibrahim**, Suchada Chantrapromma and Hoong-Kun Fun (2014) Bis{2-methoxy-6-[(E)-(4-methylbenzyl)iminomethyl]phenolato} palladium(II) chloroform monosolvate, *Acta Crystallography Section E*, E70, m289-m290. (ISSN 16005368, Q3, 0.18).
 5. **Wan Nazihah Wan Ibrahim***, Nordiana Suhada Mohamad Tahiruddin and Siti Nurhazlin Jaluddin (2013) Natural Fruit Peels – Potential Biosorbents for Combating Oil Pollution, *Jurnal Intelek*, Vol 8(1), 51-56. (ISSN 2231-7716).
 6. **Wan Nazihah Wan Ibrahim*** and Mustaffa Shamsuddin (2012) Symmetrical Palladium (II) N,N,O,O-Schiff Base Complex: Efficient Catalyst for Heck and Suzuki Reactions, *Crystal Structure Theory and Applications*, 1, 25-29, doi:10.4236/csta.2012.13005. (Q3, 0.58)
 7. Amalina Mohd Tajuddin, Hadariah Bahron, Karimah Kassim, **Wan Nazihah Wan Ibrahim** and Hoong-Kun Fun (2012) Synthesis and Characterisation of Palladium(II) Schiff Base and Their Catalytic Activities for Heck Reaction, *Advanced Materials Research*, Vols. 554-556, pp 736-740, Trans Tech Publications, Switzerland, (ISSN 10226680)
 8. Hadariah Bahron, Amalina Mohd Tajuddin, **Wan Nazihah Wan Ibrahim**, Madhukar Hemamalini, Hoong-Kun Fun, (2011). Bis {2-[(E)- (4-fluorobenzyl)iminomethyl] -6-methoxyphenolato-κ²N,O1}nickel(II). *Acta Crystallography Section E*, E67, m1010–m1011 (ISSN 16005368, Q3, 0.18).
 9. Hadariah Bahron, Amalina Mohd Tajuddin, **Wan Nazihah Wan Ibrahim**, Madhukar Hemamalini, Hoong-Kun Fun., (2011) Bis{2-[(E)-(4-fluorobenzyl)iminomethyl]-6-methoxyphenolato} palladium(II). *Acta Crystallographica Section E*, E67, m759-m760 (ISSN 16005368, Q3, 0.18).
 10. Amalina Mohd Tajuddin, Hadariah Bahron, **Wan Nazihah Wan Ibrahim** and Bohari M.Yamin (2010). Bis{2-[1-(benzylimino)ethyl]phenolato}palladium(II), *Acta Crystallographica Section E*, E66, m1100 (ISSN 16005368, Q3, 0.18).
 11. **Wan Nazihah Wan Ibrahim***, Mustaffa Shamsuddin, Chantrapromma and Hoong-Kun Fun (2008) 2,2'-[(2,2-Dimethylpropane-1,3-diyl)bis (nitrilo methylidyne)] diphenolato palladium(II) Ethanol Hemisolvate, *Acta Crystallographica Section E*, E64, m909-m910 (ISSN 16005368, Q3, 0.18).
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iii. BOOK / CHAPTER IN BOOK

1. **Wan Nazihah Wan Ibrahim**, Nor Suhaila Mohamad Hanapi, Aemi Syazwani Abdul Keyon, Mohd Marsin Sanagi (2020) Chapter 1: Liquid Phase Microextraction, Advance Liquid Phase Microextraction, Publisher Penerbit Universiti Sains Malaysia e-ISBN 978-967-461-489-8.
2. Nur Husna Zainal Abidin, Ungku AmirulArif Ungku Abdullah, **Wan Nazihah Wan Ibrahim***, Nor Suhaila Mohamad Hanapi and Nursyamsyila Mat Hadir (2019), Innovative Green Analytical Magnetic Solid Phase Extraction Technique, ISBN 978-967-15509-8-4, Leading Towards Creativity & Innovation, International Invention & Innovative Competition (InIIC).
3. Siti Nurhazlin Jaluddin, Karimah Kassim, **Wan Nazihah Wan Ibrahim** (2017) Bioresources Technology in Sustainable Agriculture, E-Book ISBN: 9781771884501, Apple Academic Press, Jun 2017, Synthesis of Amino-Based Metal Organic Framework (MOF) Catalytic Application.
4. Nordiana Suhada Mohmad Tahiruddin, **Wan Nazihah Wan Ibrahim**, Habsah Alwi and Siti Nur Khairani Abdul Rahman (2012) Utilization of Dry Syzygium Grande Leaf as Low-Cost Adsorbent for Heavy Metal, Research Invention Innovation & Design 2012, ISBN 978-967-11354-4-0, 36.

D. POSTGRADUATE SUPERVISIONS

i. COMPLETED

1. **Main.** MSc, Nur Husna Zainal Abidin, Molecular Recognition Study of Magnetic Mesoporous Silica Materials Towards Organophosphate Pesticides, 2017-2020.
2. **Co-SV.** MSc, Nurzaimah Zaini, Alginate Incorporated Multi-Walled Carbon Nanotube as New Online Solid Phase Extraction Sorbent for Selective Extraction of Non-Steroidal Anti-Inflammatory Drugs, 2016-2019.
3. **Co-SV.** MSc, Mohammad Salim Tabish, Dispersive Micro-Solid Phase Extraction using Alginate/Graphene Oxide for the Determination of Selected Non-Steroidal Anti-Inflammatory Drugs from Water Samples, 2016-2019.
4. **Co-SV.** MSc, Siti Nurhazlin Jaluddin, Thermal Stability and Catalytic Activity of Amino Functionalized Hybrid Metal Organic Framework, 2013-2016.
5. **Co-SV.** PhD, Amalina Mohd Tajuddin, Investigation of Palladium(II) and Titanium(II) Complexes as Novel Heterogeneous Catalysts mounted on Carbon Nanotubes and Mesoporous Materials, 2009-2014.

ii. ON-GOING

1. **Main.** PhD, Nur Husna Zainal Abidin, Silica-Enriched Extract from Oil Palm Biomass as a Potential Sorbent for Determination of Organophosphorus Pesticides through Online Solid Phase Extraction and Magnetic Solid Phase Extraction, 2020.
 2. **Main.** MSc, Nur Zabirah Zabi, Extraction of Activated Carbon Sorbent from Oil Palm Frond Leaves for Dispersive Solid Phase Extraction of Polyaromatic Hydrocarbons in Aqueous Samples, 2020.
 3. **Co-SV.** PhD, Nurzaimah Zaini, Polypyrrole-Graphene Oxide Nanocomposite Sorbent for Micro-Solid Phase Extraction of Tetracycline Antibiotics Residues in Aqueous Matrices, 2019.
 4. **Co-SV.** MSc, Ungku Amirul Arif Ungku Abdullah, Magnetic Solid Phase Extraction Based on Graphene Oxide/Fe₃O₄ for the Determination of Tetracyclines and Heavy Metals in Water, 2017 (waiting for viva).
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E. COMPETITION / MEDAL

1. **Gold Award.** A Green Microextraction Technique using Nanomaterials Adsorbent as Valuable Tools for Elemental Speciation and Pharmaceutical Contaminants Analysis. INDES2020, 17 May – 10 Oct 2020, UiTM Perak.
2. **Bronze Award.** MOOC CHM561: Achieving Quality and Excellent, National e-Content Development Competition 2020, 11-20 Oct, UiTM Shah Alam.
3. **Bronze Award.** MOOC Quality in Analytical Measurement, National e-Content Development Competition 2019, 7 Aug 2019, UiTM Shah Alam.
4. **Silver Award.** Innovative Green Analytical Magnetic Solid Phase Extraction technique, International Invention & Innovative Competition (InIIC Series 1/2019), MNNF Network & MNNF Publisher.
5. **Gold Award, Best in Theme Award.** 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.
6. **Gold Award.** 21st Century: Biopolymer Composite as an Excellent Green Extraction Tools, Invention, Innovation & Design Exposition (IIDEX) 2017, UiTM Shah Alam & IRMI
7. **Gold Award.** 21st Century: Biopolymer Composite as an Excellent Green Extraction Tools, Scientific Research Invention & Innovation Competition (SRIIC) 2017, FSG, UiTM Shah Alam
8. **Silver Award.** 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.
9. **Silver Award.** Rapid Two phase Micro-EME of Pharmaceuticals from Aqueous Samples, 17th Industrial Art and Technology Exhibition (INATEX) 2015, UTM, Skudai.
10. **Bronze Award.** Utilization of *Arachis Hypogea* Shell as an Effective Biosorbent for Removal of Copper (II), Invention, Innovation & Design Exposition (IIDEX) 2013, UiTM Shah Alam & RIBU.
11. **Bronze Award.** Natural fruit Peels – Potential Biosorbents for Combating Oil Pollution, International Innovation, Design and Articulation (i-IDEA) 2013, UiTM Perlis.
12. **Bronze Award.** Utilization of Dry *Syzygium Grande* Leaf as low-cost Adsorbent for Heavy Metal, Research, Invention, Innovation & Design (RIID) 2012, UiTM Alor Gajah.