

# **Curriculum Vitae**



**Professor Datuk ChM. Ts. Dr. Taufiq Yap Yun Hin**  
FASc, FMIC (Malaysia), CChem., FRSC, AMIChemE (UK), MMSET (Malaysia)

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**Curriculum Vitae**  
**Professor Datuk ChM. Ts. Dr. Taufiq Yap Yun Hin, FASc, FRSC, FMIC**

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## 1. PERSONAL

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**Name** : Taufiq Yap Yun Hin (Y.H. Taufiq-Yap)  
**E-mail** : [taufiq@upm.edu.my](mailto:taufiq@upm.edu.my); [taufiqyap@ums.edu.my](mailto:taufiqyap@ums.edu.my)  
**Author ID** : 57190659362 (Scopus H Index: 50, Citation: 9494; Google Scholar H Index: 58, Citation: 12999) updated on 21 July 2021.  
**Field of Expertise** : Heterogeneous Catalysis, Selective Oxidation, Advanced Materials, Renewable Energy, Biodiesel Production, Biomass Conversion, Hydrogen Production (gasification, water splitting)

### *Academic Qualifications:*

Institution	Degree	Year
University of Manchester Institute of Science and Technology (UMIST), U.K.	Ph.D. (Heterogeneous Catalysis)	1997
Universiti Putra Malaysia (UPM)	Master of Science (Natural Products Chemistry)	1994
Universiti Pertanian Malaysia (UPM)	Bachelor of Science (Chemistry) Second Class Honours (Upper Division)	1992

### *Career History*

Vice Chancellor, Universiti Malaysia Sabah (since 30<sup>th</sup> July 2019)  
Professor (VK5), Department of Chemistry UPM (1<sup>st</sup> May 2021- now)  
Professor (VK6), Department of Chemistry UPM (1<sup>st</sup> June 2013-30<sup>th</sup> Apr 2021)  
Professor (VK7), Department of Chemistry UPM (1<sup>st</sup> October 2007 – 31<sup>st</sup> May 2013)  
Associate Professor, Department of Chemistry UPM (1<sup>st</sup> May 2002 – 30<sup>th</sup> Sept. 2007)  
Lecturer, Department of Chemistry UPM (6<sup>th</sup> August 1997 – 30<sup>th</sup> April 2002)  
Tutor, Department of Chemistry UPM (17<sup>th</sup> July 1993 – 5<sup>th</sup> August 1997)  
Finance Clerk, Agriculture Bank of Malaysia (now known as AgroBank), Kota Kinabalu Branch (Nov 1986 - June 1987).

### *Guest periods and visiting appointments at Universities*

2004 (Oct-Dec)	Associate Member, Cardiff University, UK.
2005 (June)	Sabbatical Leave, Cardiff University, UK.
2006 (July)	Associate Member, Cardiff University, UK.
2007 (June-July)	Associate Member, Cardiff University, UK.
2011(Feb-July)	Visiting Researcher, Cardiff University, UK.
2011 (July) – 2015 (June)	Visiting Professor, Curtin Sarawak Research Institute, Curtin University, Sarawak.
2011 (Nov-Dec)	Visiting Professor, Nagoya University, Japan.
2012 (Sept) – 2013 (Aug)	Visiting Professor, Universti Teknologi Petronas (UTP)
2012 (Oct) – 2013 (March)	Visiting Professor, Nagoya University, Japan
2018 (Dec)	Visiting Lecturer, Institut Sepuluh Nopember (ITS), Indonesia

2020 (Jan) Visiting Professor, King Saud University, Riyadh, Saudi Arabia.  
 2020 (10 June) – 2025 (10 June) Visiting Professor, Henan Agricultural University, China.

### ***Memberships in Council/Institute/Association***

1. Member, Board of Director, Institut Kefahaman Islam Malaysia (IKIM) (20 Jun 2019 – 19 Jun 2022)
2. Member, Majlis Agama Islam Wilayah Persekutuan (MAIWP) (2 Feb 2018- 31 Jan 2021)
3. Member, Malaysian Examination Council (Majlis Peperiksaan Malaysia) (2019 - now)
4. Member, Lembaga Pengarah Multimedia Technology Enhancement Operation Sdn Bhd (METEOR) (2019 - now)
5. Chairman (Interim), Board of Director UMS Investment Holding Sdn Bhd (UiNVEST) (23 Dec 2020-now)
6. Member, Board of Director UMS Investment Holding Sdn Bhd (UiNVEST) (July 2019-Dec 2020)
7. Chairman, Board of Director, Confusius Institute UMS (Dis 2019 – now)
8. Member, Management Board, Hospital Universiti Malaysia Sabah (HUMS) (Jan 2021- now)
9. President, Persatuan Cina Muslim Malaysia (MACMA) (2015-now)
10. President (Protem), Malaysian Catalysis Society (2016 – now)

### ***Awards, Medals and Fellowships***

1. **Professional Technologist** (2021), Malaysia Board of Technologist.
2. Listed as **World's Top 2% Scientist** by Stanford University (2020).
3. **Distinguished Order of Meritorious Service (Panglima Jasa Negara, PJN)**. Awarded by His Majesty DYMM Yang Dipertuan Agong (9 Sept 2019).
4. **Malaysia's Research Star Award 2018** awarded by Malaysian Ministry of Education and Elsevier.
5. **Maal Hijrah Special Award** Federal Territory (2018)
6. **Excellence Service Award** (2018). Awarded by Universiti Putra Malaysia.
7. **Tokoh Maulidur Rasul** (National Level) (2017). Awarded by Malaysian Government.
8. **Fellow**, Academy Science of Malaysia (2015).
9. **Top Research Scientist Malaysia** 2013 awarded by Academy Science of Malaysia.
10. **Tokoh Maal Hijrah** for Saudara Kita Category Award 2012 from Selangor State Government.
11. **International Fellowship** (Brain Gain Malaysia Programme under the Malaysian Ministry of Science, Technology and Innovation) as Visiting Researcher at Cardiff Catalysis Institute, Cardiff University, UK (February – July 2011).
12. **Excellence Service Award** (2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001, 2000) Awarded by the Faculty of Science, Universiti Putra Malaysia
13. **Excellence Teaching Award** (2009, 2008, 2006) Awarded by the Faculty of Science, Universiti Putra Malaysia.
14. **Excellence Researcher Award** (2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002, 2001) Awarded by the Faculty of Science, Universiti Putra Malaysia.
15. **Fellow**, Institut Kimia Malaysia (IKM, Malaysian Institute of Chemistry) (November 2009).
16. **MASS Young Researcher Award** 2008 from Malaysian Solid State Science and Technology Society.
17. **The Outstanding Young Malaysian Award 2008** for category Scientific and Technological Development (2008). Awarded by Junior Chamber International Malaysia.
18. **Fellow**, The Royal Society of Chemistry, United Kingdom (2008).
19. **Overseas Advanced Research Fellowship** from Malaysian Ministry of Science, Technology and Innovation and appointed Associate Member of School of Chemistry, Cardiff University, United Kingdom, 15 June – 14 July 2007.

20. **Young Chemist Program** (2005)  
Awarded by International Union of Pure and Applied Chemistry (IUPAC) to attend and present papers at 40<sup>th</sup> IUPAC Congress at Beijing, China (14-19<sup>th</sup> August 2005).
21. **Overseas Advanced Research Fellowship** from Malaysian Ministry of Science, Technology and Innovation and appointed Associate Member of School of Chemistry, Cardiff University, United Kingdom, October – December 2004.
22. **Eminent Scientist Award** (2003)  
Awarded by the Faculty of Science and Environmental Studies, Universiti Putra Malaysia for outstanding research performance for scientist in the Faculty.
23. **National Young Scientist Award** (2002)  
Awarded by Malaysian Ministry of Science, Technology and Environment, for outstanding research performance for scientist below the age of 35.
24. **Potential Researcher Award** (2001) Awarded by the Faculty of Science and Environmental Studies, Universiti Putra Malaysia.
25. **The MAHAWANGSA (First Class) Award** (1992) Awarded by the Second College, Universiti Pertanian Malaysia.
17. **Gold Medal Award**  
National Expo for Science & Technology (2002), Malaysian Ministry of Science and Technology and Environment. (Zulkarnain Zainal, Lee Kong Hui, Mohd Zobir Hussein, **Taufiq Yap Yun Hin**, Irmawati Ramli) Research Entitled: Photodegradation of Dyes Using TiO<sub>2</sub> Supported on Glass.
18. **Gold Medal Award.**  
UPM Invention and Research Exhibition 2002, (Mohd Zobir Hussein, Zulkarnain Zainal, Asmah Hj. Yahya, **Taufiq Yap**) Research Entitled: Multifunctional Nanomaterials.
19. **Gold Medal Award.**  
UPM Invention and Research Exhibition 2002, (Mohd Zobir Hussein, Zulkarnain Zainal, Badri Muhammad, Anuar Kasim, Dzulkefly Kuang, A. Halim Abdullah, Mohd Basyaruddin Abdul Rahman, Md. Jelas Haron, **Taufiq Yap**, Faujan B.H. Ahmad) Research Entitled: Activated Carbons.
20. **Gold Medal Award.**  
UPM Invention and Research Exhibition 2002, (Zulkarnain Zainal, Lee Kong Hui, Mohd Zobir Hussein, **Taufiq Yap Yun Hin**, Irmawati Ramli) Research Entitled: Photodegradation of Dyes Using TiO<sub>2</sub> Supported on Glass.
21. **Silver Medal Award.**  
UPM Invention & Research Exhibition 2003, (**Taufiq Yap Yun Hin**, Leong Loong Kong, Sharifah Bee Abd. Hamid, Mohd Zobir Hussein and Irmawati Ramli) Research Entitled: Synthesis and Characterization of Vanadyl Pyrophosphate Catalysts via Vanadyl Hydrogen Phosphate Sesquihydrate Precursor.
22. **Silver Medal Award**  
UPM Invention & Research Exhibition 2003, (Gwendoline Ee Cheng Lian, **Taufiq Yap Yun Hin**, Mawardi Rahmani, Abdul Manaf Ali, Lee Han Ling, Mong Xiao Hoi, Ng Kim Nee) Research Entitled: Cueifolin, A New Xanthone from *Gacinia cuneifolia* and *mucigerin*, A new Coumarin from *Colophyllum mucigerun*.
23. **Silver Medal Award.**  
UPM Invention & Research Exhibition 2003, (**Taufiq Yap Yun Hin**, Leong Loong Kong, Sharifah Bee Abd. Hamid, Mohd Zobir Hussein and Irmawati Ramli) Research Entitled: Physicochemical Study of  $\gamma$ -Al<sub>2</sub>O<sub>3</sub> Supported Vanadium Phosphorus Oxide Catalysts.
24. **Silver Medal Award.**  
UPM Invention & Research Exhibition 2003, (I. Ramli, Ernee Noryana Muhamad, Abdul Halim Muhamad, **Y.H. Taufiq-Yap** and S.B. Abdul Hamid) Research Entitled: Synthesis and Characterization of Nanocrystalline Powders of Copper Oxide.

25. **Silver Medal Award.**  
UPM Invention & Research Exhibition 2003, (I. Ramli, N. Mohd Nor, A.H. Abdullah, **Y.H. Taufiq-Yap** and S.B. Abdul Hamid) Research Entitled: Synthesize and Characterization of Highly Crystalline Antimony Oxide Catalysts.
26. **Bronze Medal Award.**  
UPM Invention & Research Exhibition 2003, (I. Ramli, Nor Hidayaty Kamarulzaman, **Y.H. Taufiq-Yap** and S.B. Abdul Hamid) Research Entitled: Characterization of Bismuth Oxide Catalysts Prepared Via Precipitation Method.
27. **Bronze Medal Award.**  
UPM Invention & Research Exhibition 2003, (**Y.H. Taufiq-Yap**, G.K. Lim, G.C.L. Ee and M. Radzali) Research Entitled: Larvicidal and Antimicrobial Activities from *Clausena excavata*.
28. **Bronze Medal Award.**  
Institute of Bioscience, UPM Research and Development Exhibition 2004, (Asmah Rahmat, Abdah Md. Akim, Susi Endrini, Patimah Ismail, **Taufiq-Yap Yun Hin** and Fauziah Othman) Research Entitled: SR-Strob and SG-Strob as Anticancer Agents)
29. **Silver Medal Award.**  
National Expo for Science & Technology 2004, (Fauziah Othman, Asmah, R., Normah, H., **Taufiq, Y.Y.H.**, Patimah, I., Sharida, F., Arnida, H., Yogespiriya, S., Susi, E. and Suherman, J.) Research Entitled: *Strobilanthes crispus* tea - an anti-cancer herbal drink.
30. **Bronze Medal Award.**  
National Expo for Science & Technology 2004, (Irmawati Ramli, Nor Hidayaty Kamarulzaman, Noorfarizan Nasriah Mhamat Nasudin and **Taufiq-Yap Yun Hin**) Research Entitled: Novel Oxygen Storage Materials from Nanocrystallized Bismuth Oxide.
31. **Gold Medal Award**  
UPM Invention, Research and Innovation Exhibition 2005 (Irmawati Ramli, Mohd. Asri Razali, **Taufiq Yap Yun Hin** and Zulkarnain Zainal) Research Entitled: Investigation of a Better Synthesis Method to Prepare VSbO Catalyst for the Selective Ammoxidation of Propane to Acrylonitrile.
32. **Silver Medal Award**  
UPM Invention, Research and Innovation Exhibition 2005 (Gwendoline Ee Cheng Lian, Lim Chan Kiang, Audrey Kua Siew May, Shaari Daud, Sheikh Ahmad Izzaddin, **Taufiq Yap Yun Hin**, Lee Han Lin and Mawardi Rahmani) Research Entitled: New Natural Larvicides from Guttiferae Plants.
33. **Silver Medal Award**  
UPM Invention, Research and Innovation Exhibition 2005 (Irmawati Ramli, Noorfarizan Nasriah Mhamat Nasudin, Norhidayaty Kamarulzaman and **Taufiq Yap Yun Hin**) Research Entitled: New Bismuth Oxide Morphology Obtained Through Controlled Precipitation.
34. **Silver Medal Award**  
UPM Invention, Research and Innovation Exhibition 2005 (Mohd. Izham Saiman, Mohd. Basyarudin Abdul Rahman, Irmawati Ramli, Abdul Halim Abdullah and **Taufiq Yap Yun Hin**) Research Entitled: New Route to Antimony Tetraoxide ( $\text{Sb}_2\text{O}_4$ ) Promising Promoter Catalyst in Petrochemical Industry.
35. **Silver Medal Award**  
UPM Invention, Research and Innovation Exhibition 2005 (**Taufiq Yap Yun Hin** and Goh Chee Keong) Research Entitled: Synthesis of High Activity Vanadium Phosphate Catalysts for the Production of Maleic Anhydride from *n*-butane Oxidation.
36. **Bronze Medal Award**  
UPM Invention, Research and Innovation Exhibition 2005 (**Taufiq Yap Yun Hin**, Mohd. Hasbi Ab. Rahim and Saw Chaing Shen) Research Entitled: Improved Synthesis of Vanadium Phosphate Catalyst by Hydrothermal Method for Selective Oxidation of *n*-butane to Maleic Anhydride).
37. **Bronze Medal Award**

- UPM Invention, Research and Innovation Exhibition 2005 (**Taufiq Yap Yun Hin**, Saw Chaing Shen, Mohd. Hasbi Ab. Rahim and Irmawati Ramli) Research Entitled: Effects of Ce and Zr Dopants Addition on the Catalytic Behaviour of VPO in the Selective Oxidation of Propane to Acrylic Acid.
38. **Bronze Medal Award**  
UPM Invention, Research and Innovation Exhibition 2005 (**Taufiq Yap Yun Hin**, Saw Chaing Shen, Ahmad Raslan Mat Hussin and Irmawati Ramli) Research Entitled: Selective Oxidation of Propane and Butane: Comparison of Catalytic Properties of Vanadyl Pyrophosphate Catalysts Activated in Propane/air and Butane/air Environment.
39. **Silver Medal Award**  
**Salon International Des Inventions GENEVE 2005** (R. Irmawati, K.N. Hidayaty, M.N. Noorfarizan Nasriah, **Y.H. Taufiq-Yap**, A.H. Abdullah) Research Entitled : BiOX – Matériaux de stockage d'oxygène.
40. **Bronze Medal Award**  
UPM Invention, Research and Innovation Exhibition 2006 (Ali Asghar Rownaghi, **Taufiq-Yap Yun Hin**, M.Z. Hussein, Irmawati Ramli) Research Entitled: Microwave Irradiation: An Effect on Morphology and Activity of Vanadyl Pyrophosphate Catalyst for Partial Oxidation of *n*-Butane to Maleic Anhydride.
41. **Bronze Medal Award**  
UPM Invention, Research and Innovation Exhibition 2006 (**Taufiq-Yap Yun Hin** Ali, Asghar Rownaghi, M.Z. Hussein, Irmawati Ramli) Research Entitled: Development of High Surface Area Vanadium Phosphate Catalyst for Partial Oxidation of *n*-Butane to Maleic Anhydride.
42. **Bronze Medal Award**  
UPM Invention, Research and Innovation Exhibition 2006 (**Taufiq-Yap Yun Hin**, Sharmeeela Matali, M.Z. Hussein) Research Entitled: Insertion of Co-complex to Lamellar Vanadyl Benzylphosphate and Vanadyl Phosphate dehydrate for the Preparation of Vanadyl Pyrophosphate Catalyst.
43. **Bronze Medal Award**  
UPM Invention, Research and Innovation Exhibition 2006 (Gwendoline Ee Cheng Lian, Sheikh Ahmad Izzaddin, Mawardi Rahmani, **Taufiq Yap Yun Hin**, Mohd. Aspollah Sukari, Lee Han Lin) Research Entitled: Rubraxanthone and Mangostin as Potential Lead Compounds for Anti-Cancer Activity against CEM-SS Cell Line.
44. **Silver Medal Award**  
18<sup>th</sup> International Invention, Innovation and Technology Exhibition 2007 (ITEX 2007) (**Taufiq Yap Yun Hin** and Ali Asghar Rownaghi) Research Entitled: Solvothermal Synthesis: A New Method to Prepare Vanadyl Pyrophosphate Catalysts for *n*-Butane Oxidation.
45. **Bronze Medal Award**  
18<sup>th</sup> International Invention, Innovation and Technology Exhibition 2007 (ITEX 2007) (**Taufiq Yap Yun Hin** and Ali Asghar Rownaghi) Research Entitled: New High Surface Area Vanadium Phosphorus Oxide Catalysts for Selective Oxidation of Light Alkanes.
46. **Silver Medal Award**  
UPM Invention, Research and Innovation Exhibition 2007, (**YH Taufiq-Yap** and A.A. Rownaghi) Research Entitled: Nanostructure of Vanadyl Pyrophosphate Catalyst for Selective Oxidation of Light Alkanes.
47. **Bronze Medal Award**  
UPM Invention, Research and Innovation Exhibition 2007, (**YH Taufiq-Yap** and A.A. Rownaghi) Research Entitled: Novel Subcritical Solvothermal Directly Synthesis of Vanadium Phosphate Catalysts Solid Solution for Partial Oxidation of *n*-Butane.
48. **Bronze Medal Award**

- UPM Invention, Research and Innovation Exhibition 2007, (**YH Taufiq-Yap**, WJ Tang, Z. Zainal and M.Z. Hussein) Research Entitled: Determination on the Role of Oxygen Species for Selective Heterogeneous Oxidation Catalysts.
49. **Gold Medal Award**  
Malaysia Technology Expo MTE 2008, Kuala Lumpur, 21-23 February 2008 (**YH Taufiq-Yap** and A.A. Rownaghi) Research Entitled: Nanoparticle of vanadium phosphate catalysts for selective oxidation of *n*-butane to maleic anhydride.
  50. **Silver Medal Award**  
**36<sup>th</sup> International Exhibition of Inventions of Geneva**, 2-4<sup>th</sup> April 2008, (**YH Taufiq-Yap** and A.A. Rownaghi) Research Entitled: Nanoparticle of vanadium phosphate catalysts for selective oxidation of *n*-butane to maleic anhydride.
  51. **Silver Medal Award**  
UPM Invention, Research and Innovation Exhibition 2008, (**YH Taufiq-Yap**, Wong Yee Ching, Zulkarnain Zainal, Mohd Zobir Hussein) Research Entitled: Preparation and Physico-chemicals Investigation of Bismuth-doped Vanadium Phosphorus Oxide (VPO) Catalysts for Butane Oxidation.
  52. **Silver Medal Award**  
UPM Invention, Research and Innovation Exhibition 2008, (Mohd Aspollah Hj. Sukari, Suhaila Md Saad, Tan Yee Loo, Tang Sook Wah, Nurul Waznah Muhd Sharif, **YH Taufiq-Yap**, Radzali Muse and Umi Kalsom Yusuf) Research Entitled: Sesquiterpenes from *Curcuma Aeruginosa Roxb.* (Temu Hitam).
  53. **Silver Medal Award**  
UPM Invention, Research and Innovation Exhibition 2008, (Irmawati Ramli, Ernee Noryana Muhamad, **YH Taufiq-Yap** and Abdul Halim Abdullah) Research Entitled: Structure-activity Correlation of Cu/ZnO catalysts derived from different Precursor as a Function of Aging.
  54. **Bronze Medal Award**  
UPM Invention, Research and Innovation Exhibition 2009, (**YH Taufiq-Yap**, Wong Yee Ching, Zulkarnain Zainal and Mohd. Zobir Hussein) Research Entitled: Synthesis of Self-Assembled Nanorod Vanadium Oxide Bundles by Sonochemical Treatment.
  55. **Gold Medal Award**  
**The Belgian and International Trade Fair for Technological Innovation (Brussels Eureka/Innova)**, 18-20<sup>th</sup> November 2010 (**YH Taufiq-Yap** and A.A. Rownaghi) Research Entitled: VANPHOS: New Solvothermal Synthesised Vanadium Phosphate Catalysts for Light Alkane Oxidation.
  56. **Bronze Medal Award**  
UPM Invention, Research and Innovation Exhibition 2011, (Gwendoline Cheng Lian Ee, Soek Sin Teh, Mawardi Rahmani and **Yun Hin Taufiq-Yap**) Research Entitled: New Pyranoxanthenes from *Mesua* Species.
  57. **Bronze Medal Award**  
UPM Invention, Research and Innovation Exhibition 2011, (Gwendoline Cheng Lian Ee, Siau Hui Mah, Mawardi Rahmani and **Yun Hin Taufiq-Yap**) Research Entitled: New Xanthenes From Stem Bark of *Calophyllum* Species.
  58. **Silver Medal Award**  
UPM Invention, Research and Innovation Exhibition 2011, (**YH Taufiq-Yap**, H.V. Lee) Research Entitled: A Method of Producing Biodiesel Using Heterogeneous Catalytic System.
  59. **Silver Medal Award**  
UPM Invention, Research and Innovation Exhibition 2011, (**YH Taufiq-Yap**, N.M. Nurul Suziana) Research Entitled: Influences of Various Metal Dopants on the Nanosized Vanadium Phosphate Catalysts.
  60. **Silver Medal Award**

UPM Invention, Research and Innovation Exhibition 2011, (**Y.H. Taufiq-Yap**, H.V. Lee, R. Yunus and M.Z. Hussein) Research Entitled: Calcium-Based Mixed Oxides Catalysts for Methanolysis of *Jatropha curcas* Oil to Biodiesels.

61. **Silver Medal Award**

UPM Invention, Research and Innovation Exhibition 2011, (Thomas Choong Shean Yaw, Muhammad Darmadi, Soraya Hossinie, Luqman Chuah, Robiah Yunus and Taufiq Yap) Research Entitled: Mesoporous Polymer Derived Activated Carbon Monolith.

62. **Bronze Medal Award**

Malaysia Technology Expo MTE 2012, Kuala Lumpur, 16-18 February 2012 (**YH Taufiq-Yap** and H.W. Lee) Research Entitled: A Method Producing Biodiesel Using Heterogeneous Catalytic System.

63. **Gold Medal Award**

UPM Invention, Research and Innovation Exhibition 2012 (**Y.H. Taufiq-Yap**, S. Sivasangar, A. Salmiaton) Research Entitled: Enhancement of Hydrogen Production by Secondary Metal Oxide Dopants on NiO/CaO Material for Catalytic Gasification of Empty Palm Fruit Bunches.

64. **Silver Medal Award**

Malaysian Innovation Expo (MIExpo) 2013, 26-28 September 2013 (**Y.H. Taufiq-Yap**, S. Sivasangar) Research Entitled: A New CaO Catalyst for Cracking and Reforming of Poly-aromatic Hydrocarbon in Biomass Gasification to Hydrogen.

65. **Gold Medal Award**

Malaysia International Technology Expo MTE 2014, Kuala Lumpur, 20-22 February 2014 (**YH Taufiq-Yap** and H.W. Lee) Research Entitled: Bi-Functional Heterogeneous Catalysts for Production of Non-Edible Based Biodiesel.

66. **Gold Medal Award**

International Conference and Exposition on Invention by Institution of Higher Learning 2015, (**Y.H. Taufiq-Yap**, H.V. Lee, N. Asikin-Mijan) Research Entitled: GreenCat: Bi-functional Heterogeneous Catalysts for Production of Non-Edible based Biodiesel.

67. **Gold Medal Award**

Invention, Innovation & Design Exposition 2016, (**Y.H. Taufiq-Yap**, H.V. Lee, N. Asikin-Mijan) Research Entitled: Facile Synthesis of Waste Shell-derived  $\text{Ca}(\text{OH})_2$  for Effective Bio-Gasoline Production.

68. **Gold Medal Award**

Invention, Exposition on Design & Invention of Private Institutions Higher Education 2016, (**Y.H. Taufiq-Yap**, H.V. Lee, N. Asikin-Mijan, J.C. Juan, G. Abdulkareem-Alsultan) Research Entitled: Facile and Green Synthesis of Natural Shell Derived  $\text{Ca}(\text{OH})_2$  Nano-catalyst for Effective Bio-Gasoline Production.

69. **Bronze Medal Award**

Malaysia Technology Expo MTE 2017 (D. Derawi, K. Wilson, **Y.H. Taufiq-Yap**, K.B Baharudin, N.A. Asikin-Mijan) Research Entitled: Effective Mesostructured Catalyst for Production of Green Diesel via Hydrodeoxygenation.

## 2. TEACHING AND EDUCATION

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28 years experience in teaching chemistry as a major subject at the pre-university and university levels. Subject taught includes organic chemistry, basic chemistry, physical chemistry, industrial chemistry, Catalysis, Research Methodology, Petroleum Refinery Processes, Petrochemicals (included petrochemical technology and reactor design) and Oil Spill Control.



### ***Postdoctoral Supervision***

<b>No.</b>	<b>Name</b>	<b>Projects Title</b>
1.	Dr. Ali Asghar Rownaghi (2008)	Synthesis of Nanostructured Materials for Petrochemicals Reaction.
2.	Dr. Md. Aminul Islam (2012-2015)	Biodiesel Production using Solid heterogeneous catalysts
3.	Dr. Teo Siow Hwa (2016-2017)	Bioenergy from renewable sources
4.	Dr. Sivasangar Seenivasagam (2018-2019)	Utilisation of CO <sub>2</sub>
5.	Dr. Nurul Asikin Mijan (2018-2020)	Catalytic Technology for Green diesel and Biojet Fuels (UPM)
6.	Dr. Nasar Mansir (2020-2021)	Ketonization of Fatty acid to lubricant (UPM)
7.	Dr. Haslinda Mohd Sidek	Ketonization of Fatty acid to lubricant (UPM)
8.	Dr. Teo Siow Hwa	CO <sub>2</sub> to Methanol (UMS)

### ***Postgraduate Supervision***

PhD : As Main Supervisor/Chairman of Supervisory Committee

<b>No.</b>	<b>Name of Students</b>	<b>Programme (Status)</b>	<b>Projects Title</b>
1.	Looi Ming Hoong	PhD (Graduated) 2003	Investigation of Physico-Chemicals of V-P-O Catalysts for Partial Oxidation of <i>n</i> -Butane.
2.	Tan Kian Peng	PhD (Graduated) 2003	The Effects of Dopants on the Physico-Chemical Properties of Vanadyl Pyrophosphate Catalysts.
3.	Leong Loong Kong	PhD (Graduated) 2004	Modification and Characterisation of Vanadyl Pyrophosphate Catalysts.
4.	Goh Chee Keong	PhD (Graduated) 2006	Bi-Fe Doping and Mechanochemical Treatment of Vanadium Phosphates Catalysts for Selective Oxidation of <i>n</i> -Butane to Maleic Anhydride.
5.	Ali Asghar Rownaghi	PhD (Graduated) 2007	Novel modification and Synthesis of Vanadium Phosphate Catalysts
6.	Tang Wen Jiunn	PhD (Graduated) August 2008	Investigation on the Oxidant's Nature of Vanadyl Pyrophosphate Catalysts for Butane and Propane Oxidation
7.	Wong Yee Ching	PhD (Graduated) August 2009	Modification of Micro and Nanostructures of Vanadium Oxide Based Catalyst for Partial Oxidation of <i>n</i> -Butane

8.	Lee Hwei Voon	PhD (Graduated with distinction) June 2012 (Won Best PhD Thesis from Faculty of Science, UPM and Tan Sri Ong Kee Hui Award from Institut Kimia Malaysia)	Development of Heterogeneous Catalyst for Biodiesel Production from Non-Edible Oil
9.	Fath ElRahman Hamid	PhD (Graduated) October 2014	Development of Nanoparticles Solid Acid and Bi-Functional Zirconium supported Catalysts for Production of Biodiesel from Waste Cooking Oil
10.	Theam Kok Leong	PhD (Graduated) April 2015	Methanolysis of Waste Cooking Oil and Low Quality feedstock for Biodiesel Production
11.	Teo Siow Hwa	PhD (Graduated) June 2015 (Won Best PhD Thesis from Faculty of Science, UPM and Tan Sri Ong Kee Hui Award from Institut Kimia Malaysia)	Sustainable Biofuels Production from Microalgae and Jatropha.
12.	Sivasangar Seenivasagam	PhD (Graduated) June 2015	Modification of CaO catalysts with alkali metal oxides for Palm Oil Empty Fruit Bunch Gasification to hydrogen production.
13.	Faris Aldogachi	PhD (Graduated) 2016	Dry reforming of CO <sub>2</sub> to Hydrogen Production
14.	Mohd Lokman Bin Ibrahim	PhD (Graduated) 2012-2016 (Won Best PhD Thesis from Faculty of Science, UPM, Gold Medal for UPM Postgraduate and Tan Sri Ong Kee Hui Award from Institut Kimia Malaysia)	Biodiesel Production by using Solid Acid Catalyst
15.	Nurul Syazwani Othman	PhD (Graduated) 2017	Biodiesel from Microalgae using waste shell as catalyst
16.	Nasar Mansir	PhD (Graduated) April 2018 (won Dean Gold Medal)	Synthesis and Characterization of Heterogeneous Mixed Oxide Catalysts Based on Egg Shell for Biodiesel Production from Waste Cooking Oil.
17.	Mahashanon Arumugam	PhD (Graduated) 2019	Effective Green Fuel Production Strategies by Catalytic Hydrodeoxygenation of Non-Edible Vegetable Oil Using Nanozeolite Beta and ZSM-5 catalysts

18.	Mohd. Sufri Mastuli	PhD (Graduated) 2013-2019	Hydrogen Production from Supercritical Water Gasification of Oil Palm based Biomass
19.	Nurul Suziana Nawi @ Mohamed	PhD (viva)	Biomass conversion to Chemicals and Biofuels.
20.	Kareem AlSultan	PhD (Graduated) 2016-2019 (won Dean Gold Medal)	Green diesel production from waste cooking oil using carbon based catalysts.
21.	Shatesh Kumar A/L Sangar	PhD (viva) 15 Oktober 2020	Esterfication of Palm Fatty Acid Distilled to Methyl Ester
22.	Nur Azreena Idris (joint degree with Newcastle University Australia)	PhD (On Going) 2018-now	Green diesel production from hydrodeoxygenation process
23.	Wan Nor Adira Binti Wan Khalit	PhD (On Going) 2018-now	Synthesis of Green Diesel using various metal Oxide catalysts
24.	Chang He	PhD (On Going) 2021-now	Synthesis of Metal Oxide Framework (MOF) Material for Deoxygenation of Waste Cooking Oil

MSc : As Main Supervisor/Chairman of Supervisory Committee

1.	Peh Tian Hai	MSc (Graduated) 2001	Chemical Constituents and Biological Activities of <i>Clausena excavata</i> and Some <i>Citrus Species</i> (Rutaceae).
2.	Ita Jong Yee Ping	MSc (Graduated) 2001	Synthesis and Characterisation of Vanadium-Antimony-Oxide Catalyst.
3.	Goh Chee Keong	MSc (Graduated) 2002	Preparation and Physico-Chemical Characterisation of VPO and V <sub>2</sub> O <sub>5</sub> /TiO <sub>2</sub> Catalysts.
4.	Lim Gin Keat	MSc (Graduated) 2005	Chemical Constituents and Biological Activites of <i>Clausena excavata</i> (Rutaceae)
5.	Ahmad Raslan Mat Hussin	MSc (Graduated) 2006	Synthesis and Physicochemical Characterisation of Vanadium Phosphorus Oxide Catalyst for Selective Oxidation of <i>n</i> -Butane to Maleic anhydride.
6.	Mohd. Hasbi Abdul Rahim	MSc (Graduated) 2006	Hydrothermal Synthesis of Vanadyl Pyrophosphate Catalysts for <i>n</i> -Butane Oxidation

7.	Saw Chaing Sen	MSc (Graduated) 2006	Investigation of the Vanadium Phosphate Catalysts for selective Oxidation of Propane to acrylic acid.
8.	Nor Asrina Sairi	MSc (Graduated) 2007	The Effect of Te and Co Dopants in Vanadium Phosphorus Catalysts
9.	Theam Kok Leong	MSc (Graduated) July 2008	Improvement on Hydrothermally Synthesized VPO Catalysts By Addition of Some Metal Dopants
10.	Tang Lok Hing	MSc (Graduated) 2010	Synthesis of Vanadium Phosphorus Oxide Catalysts via Microwave method.
11.	Nurul Suziana Nawi @ Mohamed	MSc (Graduated) 2011	Preparation of Nanostructured Mixed Metal Oxide Catalysts
12.	Yuen Choon Seong	MSc (Graduated) 2013	Effect of Promoters Addition on the Nature of The Oxidants in Vanadium Phosphate Catalysts
13.	Nurul Fitriyah Abdullah	MSc (Graduated) 2012	Synthesis of Solid Catalysts for Biodiesel Production
14.	Sudarno	MSc (Graduated) 2012	Influence of Cerium Based Oxide on Nickel Based Catalyst for Dry Reforming of Methane
15.	Suhaizam Suhaimi Affendy	MSc (Graduated) 2012	Effect of Sonochemical Treatment on the Synthesis of Nanostructured Vanadium Oxide Based Catalysts for <i>n</i> -Butane Oxidation
16.	Aqilah Noor Bahari	MSc (Graduated) 2012	Transesterification of Jatropha Curcas Oil to Biodiesel Using Heterogeneous Catalysts
17.	Asiah Abdullah	MSc (Graduated) 2012 (Won Best MSc Thesis 2012 from Faculty of Science, UPM)	Activation and Characterization of Dune Sand as Partial Cement Replacement for Concrete
18.	Nur Faizal Abdul Rahim	MSc (Graduated) 2014	Biomass gasification under catalytic reaction for enhancement the production of hydrogen
19.	Nurul Asikin Hj Mijan	MSc (Graduated) 2014	Biodiesel Production catalyzed by Natural Shell
20.	Shajaratun Nur Bt Zdainal Abidin	MSc (Graduated) 2014	La-Based Oxide Catalysts for transesterification of Jatropha Oil.
21.	Rabiah Nizah Bt Md Fahmy	MSc (Graduated) June 2015	Biodisel Production via Methanolysis of Palm Oil with Metal Oxide Catalysts

22. Lai Fook How	MSc (Graduated) June 2015	Application of Industrial Metal Waste For enhancement of Concrete Mechanical Strength.
23. Surahim Bin Mohamad@ Mahmud	MSc (Graduated) May 2016	Hydrogen production via catalytic biomass gasification of Rice Straw.
24. Kareem AlSultan	MSc (Graduated) Viva 2016 Graduated 2017	Synthesis of Ordered Mesoporous La and Ca doped Activated carbon supported catalysts for Biodiesel production from waste cooking oil.
25. Salam H. Al- Jaberi	MSc (Graduated) Viva 2017	Synthesis of $\text{MnO-NiO-SO}_4^{-2}/\text{ZrO}_2$ Solid Acid Catalyst for Methyl Ester Production from Palm Fatty Acid Distillate
26. Rachel Tang	MSc (Graduated) Viva 17 May 2017	Bio Oil Production from Oil Palm Empty Fruit Bunch via Solvolysis using Zn promoted Zeolite Catalyst.
27. Ivan Tan	MSc (Graduated) Viva 1 June 2017	Synthesis of Biolubrication using Metal Oxide Catalysts
28. Ezzah Mahmudah	MSc (Graduated) 2018	Synthesis and Characterisation of CaO Derived from Cockleshell as Support for Mixed-MgO and $\text{Fe}_2\text{O}_3$ Catalysts for Fame Production using Cooking Oil.
29. Ahmad Farabi Mohamad Saman	MSc (Graduated) 2018	Fatty Acid Methyl Ester Production from Palm Fatty Acid Distillate Using Sulfonated Carbon-Based Catalysts from Palm Kernel Shell and Bamboo.
30. Arfaezah Anuar	MSc (Graduated) 2018	Dry Reforming of Methane for Syngas Production with Dolomite-Based Catalyst
31. Nurul Aliana Nasharuddin	MSc (Graduated) 9 June 2020	Synthesis and Characteriation of Supported solid catalyst for Hydrodeoxygenation reaction
32. Shobana A/P Ghanaserkhar	MSc (Graduated) 10 June 2020	Synthesis of Methyl Ester from waste oil using acid catalyst
33. Siti Fadhilah Binti Ibrahim	MSc (viva) 7 May 2021	Biodiesel production using solid acid catalyst
34. Nur Sabrina Binti Md Zaidi	MSc (viva) 7 May 2021	Synthesis and Characterization of Metal Oxide Catalysts for
35. Shameena	MSc (On Going)	Ketonisation of Palm Oil feedstock to lube oil.
36. Davin Yap Kin Yew	MSc (On Going)	Catalytic Fast Gasification of EFB Using NiO Promoted ZSM-5: Effect of Ni Loading, Catalyst-Biomass Ratio, Temperature And Flow Rate For Hydrogen Production
37. Ali Faris Abdulridha Aldoghachi	MSc (On Going)	Metal Oxide Framework Catalysts for Methanation of $\text{CO}_2$ .

PhD : As Co-Supervisor/Member of Advisory Committee

No.	Name of Students	Programme (Status)	Projects Title
1.	Habsah Mohamad	PhD (Graduated) 2002	The Search for New Antioxidant Compounds from Zingiberaceous Species
2.	Susi Endrini	PhD (Graduated)	Screening, Chemical Constituents and Biological Activities of <i>Lawsonia inermis</i> and <i>Strobilanthes crispus</i>
3.	Mohd Nazil Salleh	PhD (Graduated)	Gene Expression and Metabonomic Profilings in p53 <sup>+/−</sup> Knockout Mice Following Dimethylstilbestrol Treatment
4.	Lee Siew Ling	PhD (Graduated) 2004	Preparation and Characterization of Bi <sub>2</sub> O <sub>3</sub> -M <sub>2</sub> O <sub>5</sub> Systems (M=P, As, V) Oxide Ion Conductors.
5.	Abdah Md. Akim	PhD (Graduated) 2004	Chemical Constituents and Biological Activities of <i>Micromelum minutum</i> and <i>Strobilanthes crispus</i> .
6.	Lim Chan Kiang	PhD (Graduated) 2005	Bioactive Compounds from <i>Garcinia Penangiana</i> and <i>Jatropha Podagrica</i> .
7.	Khaw Chwin Chieh	PhD (Graduated)	Synthesis and Electrical Properties of New Phrochlore Materials
8.	Darmadi	PhD (Graduated) (Chemical Engineering) 2009	Preparation of Furfuryl Alcohol-Derived Activated Carbon Monolith for Liquid Adsorption.
9.	Muhammad	PhD (Graduated) (Chemical Engineering) 2011	Adsorption β–Carotene by Carbon Coated Monolith
10.	Vivien Jong Yi Mian	PhD (Graduated)	Bioactive Compounds from <i>Garcinia sp.</i>
11.	Ong Poh Shing	PhD (Graduated)	Preparation and Characterization of Cerium Based Oxide Ion Conductor
12.	Mohammed M. Ahmed	PhD (Graduated) (Chemical Engineering) 2011	Production of Hydrogen Rich Gas by Catalytic Gasification of Empty Fruit Bunch (EFB) of Palm Oil
13.	Collin Glen Joseph	PhD (Graduated) Nottingham University, UK 2011	Sonolysis, Photolysis and Sonophotolysis Degradation of 2,4,6-Trichlorophenol
14.	Mah Siau Hui	PhD (Graduated) 2012	Bioactive Compounds from <i>Calophyllum inophyllum</i>
15.	Wong Yong Chen	PhD (Graduated)	Preparation and Characterization of Niobium Oxide Catalysts for Biodiesel Production.
16.	Chon Mun Ping	PhD (Graduated) June 2015	Synthesis and Characterisation of Pychlore Materials in Bi <sub>2</sub> O <sub>3</sub> -CuO-M <sub>2</sub> O <sub>5</sub> (M=Ta, Nb, Sb) Ternary System.
17.	Yuen Mei Lian	PhD (Graduated)	Synthesis and Characterisation of Bi-Based Oxide Conductor
18.	Muhammad Arif Bin Ab Aziz	PhD Chemical Engineering (Graduated)	Hydrogenation of Carbon Dioxide over Iron Loaded Mesostructured Silica Nanomaterial Catalyst

		Universiti Teknologi Malaysia	
19.	Nor Shafizah binti Ishak	PhD Environmental Engineering (Graduated) 2016	Sustainable Solution for Urban Fat, Oil and Grease Waste Conversion into Biodiesel Using Microwave Oven
20.	Nurul Asikin Mijan (University of Malaya)	PhD (Graduated) (2018) Universiti Malaya (won Tan Sri Ong Kee Hui Award from Institut Kimia Malaysia)	Deoxygenation of Vegetable Oil to Renewable Diesel
21.	Raja Mohammad Hafriz b Raja Shahruzzaman	PhD Chemical Engineering (Viva Jan 2019)	Modified Dolomite Based Catalyst for Bio-Aviation Fuel Production Via Catalytic Pyrolysis of Triglyceride
22.	Asiah Abdullah	PhD (Graduated) 2018	Preparation and Optimization of Red Pitaya Seed Esters Nanoemulsion for Cosmeceutical Purpose
23.	Yew Sook Yan	PhD (Graduated) (Viva Nov 2019)	Development of Bithmuth-Ni Oxide and Bithmuth-Zinc Oxide Catalysts for Biodiesel Production from Crude Palm Oil
24.	Khairul Basyar Baharudin	PhD (Graduated) Viva 2019 Universiti Kebangsaan Malaysia	Nickel Supported Catalysts for Green Diesel Production

**MSc : As Co Supervisor/  
Member of Supervisory Committee**

1.	Sivajothi a/p Nadarajah	MSc (Graduated)	Synthesis and Characterization of Layered Double Hydroxide - Congo Red Nanocomposites.
2.	Ow Wee Shing Tat	MSc (Graduated)	Microwave-Assisted Synthesised of Layered Double Hydroxide and Their Nanocomposites.
3.	Ng Kim Nee	MSc (Graduated)	Cytotoxic Components from Theaceae and Guttiferae.
4.	Md. Suhaimi Elias	MSc (Graduated)	Photodegradation of Phenolic compound by TiO <sub>2</sub> .
5.	Lee Kong Hui	MSc (Graduated)	Photodegradation of Organic Compounds using titanium Dioxide Supported on Glass.
6.	Cheow Yuen Lin	MSc (Graduated)	Bioactive Compounds from Guttiferae Plants.
7.	Noorfarizan Nasriah Mhmat Nasudin	MSc (Graduated)	Synthesis, Characterization and Catalytic Behaviour of Mixed Oxides Catalysts for Partial Oxidation of Propane.

8.	Mohd Asri Razali	MSc (Graduated)	Synthesis and Characterisation of Vanadium Antimony Oxide for Propane Ammoxidation
9.	Ernee Noryana bt Muhamad	MSc (Graduated)	Synthesis, Characterisations and Catalytic Behaviour of Cu Oxides Catalysts
10.	Wan Nor I'zzah bt Wan Mohamad Zain	MSc (Graduated)	Nutritional Composition and Antioxidant Activity of <i>Clausena Excavata</i> and <i>Murraya Koengini</i> and Their Effect on Cancer Cells.
11.	Lim Chia Meng	MSc (Graduated)	Preparation and Characterization of Bismuth Based Oxide Ion Conductor
12.	Woi Pei Meng	MSc (Graduated)	The Preparation, Characterization and Catalytic Behaviour of Mo-V Based Catalysts Prepared By Homogeneous Precipitation Synthesis
13.	Siti Murni binti M. Zawawi	MSc (Graduated)	Synthesis and Characterisation of Molybdenum Oxide Powders
14.	Tan Yee Wean	MSc (Graduated)	Effect of Organic Species and Calcination Conditions on the Characteristics of MoV Oxides Prepared Via Reflux Method
15.	Nurul Maznah Bt. Muhamad Sharif	MSc (Graduated)	Chemical Constituents and Bioactivity Studies on <i>Zanthoxylum rhetsa</i> and <i>Clausena excavata</i> .
16.	Ng Sin Nee	MSc (Graduated)	Preparation and Characterization of Bismuth Based Oxide Ion Conductor
17.	Lim Kah Seng	MSc (Graduated) Universiti Tunku Abdul Rahman	Synthesis and modification of Vanadium Phosphorus Catalysis
18.	Ahmad Afandi Bin Muda	MSc (Graduated) 2014	Effect of pH on the physicochemical Properties on MoVTenbO Catalyst for Selective Oxidation of Propane to Acrylic Acid
19.	Ahmad Zaidi B. Ismail	MSc (Graduated) 2012	Propane Selective Oxidation to Acrylic Acid Over MoVTenb Oxides Catalysts Synthesized by Reflux Method
20.	Nur Sharina Binti Anwar	MSc (Graduated) 2012	Catalytic Conversion of Cellulose to Butanol over Solid Catalysts.
21.	Nor Shafizah Binti Ishak	MSc (Graduated) 2012	Conversion of Glucose to Ethanol by using Pt/SiO <sub>2</sub> Catalyst
22.	Nor Saiful Hafiz Bin Abdul Habib	MSc (Environmental Engineering) (2013) (Graduated)	Synthesis of Ester Based Drilling Fluid Using Palm Oil Methyl Ester Via Transesterification Method
23.	Wong Mei Sam	MSc (Graduated)	The Study of Pt- and Ni-Promoted MoVNbO <sub>x</sub> Catalysts in the Partial Oxidation of Propane to Acrylic Acid
24.	Sumaiyah bt Megat Nabil Mohsin	MSc (Graduated) 2014	Synthesis and Characterization of Zinc :Layered Hydroxide – UV Absorbent Nanohybrid
25.	Norfathiah Abd. Razak	MSc (Graduated)	The Application of Supported Basic Ionic Liquid in Biodiesel Production
26.	Donya Ramimoghadam	MSc (Graduated) 2014	Synthesis of zinc oxide nanoparticles



27.	Nurhani Fatihah Bt Jariah	MSc (On Going)	An Improved Biodiesel Production from Grease Trap Waste and Its Purification Using Biomass Derived Adsorbents
28.	Tanusha a/p Tamil Selvan	MSc (On Going)	Waste Glass as Catalyst for Biodiesel Production

### 3. *Undergraduate Supervision*

No.	Students Name	Programme (Academic Year)	Projects Title
1.	Muhammad Haziq Akashah Bin Azahari	B Sc (Hons) (2019/2020)	Synthesis, Characterization and Catalytic Performamnce of MOF ZIF67based Catalyst in CO <sub>2</sub> Reaction
2.	Nur Athirah By Adzhar	B Sc (Hons) (2019/2020)	Development of Red Mud Catalyst for Green Diesel Production via Deoxygenation of Ceiba Oil
3.	Mohammad Hafizzudin Bin Anaffiah	B Sc (Hons) (2019/2020)	Synthesis, Characterization and Catalytic Application of ZIF-8 Based Catalyst in CO <sub>2</sub> Reaction
4.	Shatesh Kumar A/L Sangar	B Sc (Hons) (2016/2017)	Synthesis On Nanocatalyst For Biodiesel Production From Palm Fatty Acid Distillate
5.	Nik Nur Adlina Binti Nik Abdul Khalil	B Sc (Hons) (2016/2017)	Preparation Of Carbon Nanotubes Based- Catalyst For Methyl Ester Production From Waste Cooking Oil
6.	Shobana Ghanaserkhar	B Sc (Hons) (2016/2017)	Methanation Of Carbon Dioxide By Using Sr-Co Bsed Catalyst Supported On Al <sub>2</sub> O <sub>3</sub> And $\beta$ -Zeolite
7.	Nur Aida Binti Mohd Zaini	B Sc (Hons) (2015/2016)	Supported Nickel Catalyst For The Conversion Of Biogas To Syngas
8.	Nurul Munirah Binti Razali	B Sc (Hons) (2015/2016)	Synthesis And Characterization Of Nickel Supported Magnesium Oxide Catalyst For Methanation Of Carbon Dioxide
9.	Muhammad Zulhelmi Bin Azmil	B Sc (Hons) (2015/2016)	Supported Nickel On Zinc Oxide Catalyst For Hydrogen Production From Flash Gasification Of Empty Fruit Bunches (EFB)
10.	Mohd Fadzli Bin Masrum	B Sc (Hons) (2014/2015)	Catalytic Biomass Gasification Of Oil Palm Waste For The Hydrogen Gas Production
11.	Ezzah Mahmudah Binti Salim	B Sc (Hons) (2013/2014)	Syntesisof CaZnO Catalyst For Biodiesel Production From Palm Oil
12.	Davin Yap Kin Yew	B Sc (Hons) (2013/2014)	Catalytic Biomass Gasification Of Oil Palm Waste For Hydrogen Gas Production
13.	Anthony Chin Lik Onn	B Sc (Hons) (2012/2013)	Supercritical Water Gasification of Oil Palm Biomass
14.	Michael Chin Lik Wei	B Sc (Hons) (2012/2013)	Dry Reforming of Palm Oil Mill Effluents (POME) Biogas to Hydrogen
15.	Ch'ng Kean Loong	B Sc (Hons) (2012/2013)	Gasification of Biomass to Syngas
16.	Cassandra Kesamy	B Sc (Hons) (2012/2013)	Dry Reforming of Methane to Syngas
17.	Ng Fung Ling	B Sc (Hons) (2012/2013)	Biodiesel Production from Microalgae using heterogeneous based catalysts

18.	Nur Nabila Najat Bt Noriman	B Sc (Hons) (2012/2013)	Biodiesel Production from Jatropha Crude Oil using Egg Shell catalysts
19.	Nurul Syazwani Binti Osman	B Sc (Hons) (2012/2013)	Biodiesel Production from Palm Oil using Waste Shell Catalysts
20.	Azzah Nuryaqeen Binti Matsah	B Sc (Hons) (2010/2011)	Biodiesel Production from Palm Cooking Oil By using CaO/Al <sub>2</sub> O <sub>3</sub> Catalyst
21.	Stella Suihua Anak Libat	B Sc (Hons) (2010/2011)	Preparation of Biodiesel From Jatropha Oil Using CaO-SiO <sub>2</sub> Catalyst
22.	How Cai Kian	B Sc (Hons) (2010/2011)	Synthesis and Characterisation of Metal Doped VPO Catalysts
23.	Ivan Tan Choon Tah	B Sc (Hons) (2010/2011)	Preparation of Biolubricant from Palm Oil Using CaO, ZnO and MgO as Catalyst
24.	Ng Kin Meng	B Sc (Hons) (2010/2011)	Gasification of Sawdust to Hydrogen Production
25.	Nazuha Mohd. Ali	B Sc (Hons) (2009/2010)	Biomass Gasification of Sentang Wood ( <i>Azadirachta excelsa</i> ) by using Cockle Shells as Catalyst in Syngas Production
26.	Sivasangar Seenivasagam	B Sc (Hons) (2009/2010)	Catalytic Dry Reforming of Natural Gas to Syngas Production
27.	Rabiah Nizah Bt Md Fahmy	B Sc (Hons) (2009/2010)	Biodiesel from Jatropha Oil using SrO as Solid Base Catalyst for Transesterification Reaction
28.	Noor Fathanah Binti Aminuddin	B Sc (Hons) (2009/2010)	Modification of Vanadium Phosphorus Oxide Catalys by Addition of Nb, Cs and W Dopants for Selective Oixdation of <i>n</i> -Butane to Maleic Anhydride
29.	Lau Poh Lin	B Sc (Hons) (2009/2010)	Transesterification of <i>Jatropha Curcas</i> Oil to Biodiesel by Using Short Necked Clam ( <i>Orbicularia orbiculata</i> ) Shell Derived Catalyst
30.	Pearly Wong	B Sc (Hons) (2009/2010)	Hydrogen Production from Biomass Gasification of <i>Azadirachta excelsa</i> Wood using Combusted Eggshell as Catalyst
31.	Joshua Hoh Ji Reh	B Sc (Hons) (2008/2009)	Synthesis of Nano-structured Vanadium Phosphate Catalyst Using Sonochemical Route for Partial Oxidation of <i>n</i> -Butane
32.	Suhaizam Shahrul Affendy Bin Suhaimi	B Sc (Hons) (2008/2009)	The Effect of Sonochemical Treatment on the Synthesis of Nanostructured Vanadium Oxide Based Catalyst for <i>n</i> -Butane Oxidation
33.	Fatin Nordalila Bt Omar	B Sc (Hons) (2008/2009)	Synthesis and Characterization of Nickel Supported on Silica.
34.	Aqilah Noor Bt Bahari	B Sc (Hons) (2008/2009)	The Effect of Microwave Irradiation Mechanochemical Treatment on Vanadium Phosphorus Oxide (VPO) Catalyst
35.	Sharveen Baren Pillai	B Sc (Hons) (2008/2009)	Modification and Synthesis of Vanadium Phosphate Oxide (VPO) Catalyst via Microwave Irradiation and Tellerium Addition.
36.	Chon Mun Ping	B Sc (Hons) (2008/2009)	Synthesis and Characterization of Ni Doped Vanadium Phosphorus Oxide (VPO) Catalyst and The Effect of Microwave Irradiation.

37.	Chia Mee Keau	B Sc (Hons) (2008/2009)	Effect of Microwave Irradiation on Cerium Doped Vanadium Phosphate Catalyst for Selective Oxidation of <i>n</i> -Butane.
38.	Wan Mohd Azami Bin Wan Jali	B Sc (Hons) (2007/2008)	Synthesis and Characterisation of promoted vanadyl pyrophosphate catalysts
39.	Yuen Pei Ling	B Sc (Hons) (2007/2008)	Synthesis and Characterisation of promoted vanadyl pyrophosphate catalysts
40.	Lee Hwei Voon	B Sc (Hons) (2007/2008)	Effect of Different Calcination Duration on Physicochemical Properties of Vanadium Phosphate Catalysts (VPO)
41.	Roziana A Manan	B Sc (Hons) (2007/2008)	Effect of Bi-metallic Dopant on Vanadium Phosphorus Oxide Catalysts
42.	Goo Chee Eng	B Sc (Hons) (2007/2008)	Synthesis of New Bismuth-Cerium-Modified Vanadium Phosphate Catalysts for Oxidation to Maleic Anhydride
43.	Ch'ng Lee Kee	B Sc (Hons) (2007/2008)	Synthesis and Physico-Chemical Investigation of Chromium-Molybdenum Doped Vanadium Phosphorus Oxide (VPO) Catalysts
44.	Wong Ying Chang	B Sc (Hons) (2007/2008)	The Effect of Varying the Duration of the Nitrogen Pretreatment on the Morphology and Reactivity of Vanadyl Pyrophosphate Catalysts
45.	Siw Tyng Woi	B Sc (Hons) (2007/2008)	The Physicol and Chemical Effect of Bismuth and Zinc Dopants to Vanadium Phosphorus Oxide Catalysts
46.	Tracy Yeo Hui Cheng	B Sc (Hons) (2007/2008)	Modification of Vanadium Phosphorus Oxide Catalyst by Introduction of Molybdenum and Zirconium as Additives
47.	Mak Lai Ha	B Sc (Hons) (2006/2007)	Preparation of High Surface Area Promoted Vanadium Based Catalysts.
48.	Nurul Aidilla Nahrawi	B Sc (Hons) (2006/2007)	Additional of Bi-Te Mixture into Vanadium Phosphate Catalysts.
49.	Yong Yen Ping	B Sc (Hons) (2006/2007)	Chemical Constituents and Activity of Some Essential Oils Obtained from Local Herbal Medicinal Plants.
50.	Nur Heedayu Abd. Halim	B Sc (Hons) (2006/2007)	Modification of Organic Method Synthesized Vanadium Phosphorus Oxide Catalysts with Addition of Fe and Tribomechanical Treatment.
51.	Yee Sook Wai	B Sc (Hons) (2006/2007)	The Effect of Bi-Co Complex Addition on the Physico-Chemical Properties of Vanadium Phosphate Catalyst.
52.	Sim Wei Chung	B Sc (Hons) (2006/2007)	Hydrothermally synthesis of Te-promoted VPO catalysts.
53.	Nur Hidayah Khalid	B Sc (Hons) (2006/2007)	Hydrodistillation of Several Essential Oils from Malaysian Medicinal Plants.
54.	Nurul Suziana Nawi @ Mohamed	B Sc (Hons) (2006/2007)	The Effect of Te and Ball Milling on Vanadium Phosphate Catalysts.

55.	Cheok Kian Soon	B Sc (Hons) (2005/2006)	Preparation and Characterization of Bi-Co doped VPO Catalysts
56.	H'ng Chyi Lang	B Sc (Hons) (2005/2006)	Modification of Vanadium Phosphate Catalysts prepared in Organic medium by Addition of Bismuth Dopants
57.	Ng Sin Nee	B Sc (Hons) (2005/2006)	Synthesis and Physico-Chemicals Investigation of High Energy Milled Bi- Doped VPO Catalysts for Propane Oxidation to Acrylic Acid
58.	Chan Mun Hoe	B Sc (Hons) (2005/2006)	The Effect of Bismuth-Ferum Dopants Addition to Vanadyl Pyrophosphate Catalysts Prepared Via Organic Method
59.	Theam Kok Leong	B Sc (Hons) (2005/2006)	Hydrothermal synthesized Co-promoted Vanadium Phosphate Catalysts
60.	Tan Wei Leong	B Sc (Hons) (2005/2006)	Modification by Mechanochemical treatment and Bi-Zr dopant VPO Catalysts for Propane Oxidation to Acrylic Acid
61.	Wong Yee Ching	B Sc (Hons) (2005/2006)	Influence of Mechanochemical treatment on the reactivity of Bi-Promoted Vanadium Phosphate Catalysts
62.	Chen Chooi Wei	B Sc (Hons) (2005/2006)	The Effect of Cobalt Additives on the Physico-Chemicals Characterization Vanadyl Pyrophosphate Catalysts
63.	Sia Jun Kean	B Sc (Hons) (2005/2006)	Chemicals Constituent of <i>Mitragyna Speciosa</i> and Microwave Extracted Essential Oil of <i>Clausena Excavata</i>
64.	Tan Wai Kean	B Sc (Hons) (2005/2006)	Extraction and Cytotoxic Study of Various Essential Oils
65.	Noraini	B Sc (Hons) (2005/2006)	Extraction and Larvicidal Study of Various Essential Oils
66.	Zulkhairi	B Sc (Hons) (2005/2006)	High Energy Ball Milled of $\text{VOHPO}_4 \cdot 0.5\text{H}_2\text{O}$
67.	Ooi Boon Thai	B Sc (Hons) (2004/2005)	Introduction of Bi-Co Mixture Promoters to the Vanadium Phosphorus Oxide Catalysts.
68.	Yeo Mei Mei	B Sc (Hons) (2004/2005)	Tribomechanical Treatment of Chromium Promoted Vanadyl Pyrophosphate Catalysts: Structural and Reactivity Effect.
69.	Woo Eng Wah	B Sc (Hons) (2004/2005)	The Effect of Mechanochemical treatment on the Morphology and Catalytic Performance of Vanadyl Pyrophosphate Catalysts
70.	Tan Wan Wei	B Sc (Hons) (2004/2005)	The Effect of Mechanochemical treatment on the Morphology and Reactivity of Cobalt-Promoted Vanadium Phosphorus Oxide Catalysts
71.	Lim Mei Yee	B Sc (Hons) (2004/2005)	Chemical Constituents and Biological Activity of <i>Strobilanthes Crispus</i>
72.	Yea Nee Lih	B Sc (Hons) (2004/2005)	Chemical Constituents and Biological Activity of <i>Lawsonia Inermis</i>
73.	Tang Weng Jiun	B Sc (Hons) (2004/2005)	The Effect of Sn-Cr Dopants Addition to Vanadyl Pyrophosphate Catalysts

74.	Fitriah Asaari	B Sc (Hons) (2004/2005)	Modification of Vanadyl Pyrophosphate Catalysts by Addition of Bismuth-Chromium Dopants
75.	NorAsrina Sairi	B Sc (Hons) (2004/2005)	The Effect of Bismuth-Zinc Additives on the Physico-Chemicals Characterization Vanadyl Pyrophosphate Catalysts
76.	Law Chew Lian	B Sc (Hons) (2003/2004)	Hydrothermal Synthesis of Vanadyl Pyrophosphate Catalysts.
77.	Noor Shafarina	B Sc (Hons) (2003/2004)	Characterization of hydrothermally synthesized Vanadium Phosphate Catalysts.
78.	Yeang Siew Yen	B Sc (Hons) (2003/2004)	Synthesis and Characterization of $\gamma$ -alumina supported VPO Catalysts via $\text{VOPO}_4 \cdot 2\text{H}_2\text{O}$ .
79.	Chen Lai Min	B Sc (Hons) (2003/2004)	Physico-chemical Properties of $\gamma$ -alumina supported Vanadyl Pyrophosphate Catalysts.
80.	Look Kar Yang	B Sc (Hons) (2003/2004)	Effect of Reflux temperatures on the properties of VPO Catalysts.
81.	Ma Yew Sing	B Sc (Hons) (2003/2004)	The Effect of Synthesis Temperature on the Physico-Chemical Properties of Vanadyl Pyrophosphate Catalysts.
82.	Lim Bee Leng	B Sc (Hons) (2003/2004)	Synthesis and Characterization of Vanadium Phosphorus Oxide Catalysts Supported on Hydrotalcite.
83.	Wong Ching Wooi	B Sc (Hons) (2003/2004)	Preparation of hydrotalcite supported VPO Catalysts.
84.	Wan Izhan Nawawi Wan Ismail	B Sc (Hons) (2002/2003)	Synthesis and Characterization of Ni-promoted Vanadyl Pyrophosphate Prepared via Organic Method.
85.	Abdul Ghani Abd. Aziz	B Sc (Hons) (2002/2003)	Characterization of Ni Doped VPO Catalysts.
86.	Mohd. Hasbi Abdul Rahman	B Sc (Hons) (2002/2003)	Modification of Vanadium Phosphorus Oxide Catalysts with Copper.
87.	Sophian Ashafi Mohamed	B Sc (Hons) (2002/2003)	Copper Doped Vanadyl Pyrophosphate Catalysts.
88.	Saw Chaing Shen	B Sc (Hons) (2002/2003)	Physico-Chemical Properties of Tin-Doped V/P/O Catalysts.
89.	Mas Arlyiana A. Rashid	B Sc (Hons) (2002/2003)	Effect of Calcination Time on Vanadium Phosphorus Oxide Catalysts.
90.	Mohd. Rizal Kamjah	B Sc (Hons) (2002/2003)	Effect of Calcination Temperature on Vanadium Phosphorus Oxide Catalysts.
91.	Lai Chee Seng	B Sc (Hons) (2002/2003)	Chemical Constituents and Bioactivity of <i>Stobilanthes Crispus</i> .
92.	Koh Hoi Fong	B Sc (Hons) (2002/2003)	Chemical Constituents and Bioactivity of <i>Citrus hysrtrix</i> .
93.	Tan Chin Poh	B Sc (Hons) (2001/2002)	Synthesis and Photocatalytic degradation of Alizarin Red using $\text{TiO}_2$ and $\text{TiO}_2$ /activated carbon.
94.	Ooi Wooi Him	B Sc (Hons) (2001/2002)	The Preparation, Characterisation and Photocatalytic properties of metal-ion-doped $\text{TiO}_2$ .

95.	Phang Kong Jan	B Sc (Hons) (2001/2002)	Immobilization of TiO <sub>2</sub> on glass for photodegradation of Alizarin Red.
96.	Noor Azimah Sulaiman	B Sc (Hons) (2001/2002)	Preparation and Characterization of Activated Carbon from Sentang Wood (Physical and Chemical Activation).
97.	Lim Gin Keat	B Sc (Hons) (2001/2002)	Bioactive Compounds from <i>Clausena excavata</i> .
98.	Siti Fatimah Aminuddin	B Sc (Hons) (2001/2002)	Chemical Constituents from <i>Citrus Sp.</i>
99.	Zaidina Bt. Mohd. Daud	B Sc (Hons) (2001/2002)	Bioactive compounds from <i>Citrus hystrix</i> .
100.	Siti Aishah Rafdzi @ Ramli	B Sc (Hons) (2001/2002)	Immobilization of TiO <sub>2</sub> on polymer for photodegradation of Alizarin Red.
101.	Wan Mazlin Bt. Ghazali	B Sc (Hons) (2001/2002)	Immobilization of TiO <sub>2</sub> on polymer for photodegradation of Alizarin Yellow.
102.	Mong Xiou Hui	B Sc (Hons) (2000/2001)	Chemicals Constituents and Bioactivity of <i>Citrus microcarpa</i> .
103.	Ta Kah Loon	B Sc (Hons) (2000/2001)	Chemicals Constituents and Bioactivity of <i>Citrus maxima</i> .
104.	Teh Chee Hing	B Sc (Hons) (2000/2001)	Photocatalytic Degradation of Alizarin Yellow GG Using Modified TiO <sub>2</sub> Catalyst.
105.	Ng Si Liek	B Sc (Hons) (2000/2001)	Synthesis and Physico-Chemical Characterization of Vanadyl Pyrophosphate Catalysts Prepared by Various Precursors.
106.	Sim Tze Yang	B Sc (Hons) (2000/2001)	Activated Carbon from Rubber Wood: Chemical Activation by KOH and H <sub>3</sub> PO <sub>4</sub> .
107.	Lim Chit Kuen	B Sc (Hons) (2000/2001)	Preparation and Characterization of Activated Carbon obtained from Durian: Shell and Seed.
108.	Ho Soon Min	B Sc (Hons) (2000/2001)	Activated Carbon from Coconut Stalk: Physical and Chemical Activation.
109.	Chong Kok Wei	B Sc (Hons) (2000/2001)	Textural and Chemical Characterization of Activated Carbon Prepared from Durian Wood with H <sub>2</sub> SO <sub>4</sub> and KOH Impregnation.
110.	Lim You Huat	B Sc (Hons) (2000/2001)	Synthesis and Characterization of Supported CuO Catalysts.
111.	Mahammad Nasir Hj. Abdullah	B Sc (Hons) (2000/2001)	Activated Carbon from Nipah Palm: Physical and Chemical Activation.
112.	Ooi Wei Lim	B Sc (Hons) (1999/2000)	Preparation and Physico-Chemical Characterization of Vanadium Phosphate Catalyst derived from Vanadyl (IV) Dihydrogen Phosphate, VO(H <sub>2</sub> PO <sub>4</sub> ) <sub>2</sub> .
113.	Ho Chai Ping	B Sc Cum Education (Hons) (1999/2000)	Preparation and Characterisation of VPO Catalyst via Vanadyl (V) Phosphate dihydrate (VOPO <sub>4</sub> ·2H <sub>2</sub> O) Precursor.
114.	Tan Kian Peng	B Sc (Hons) (1999/2000)	Synthesis and Characterisation of promoted (VO) <sub>2</sub> P <sub>2</sub> O <sub>7</sub> Catalyst.
115.	Chu Chun Wai	B Sc (Hons) (1999/2000)	Characterization of fresh and used TiO <sub>2</sub> (supported and unsupported) Catalyst and their

			Photocatalytic Activity for Degradation of Organic Dye.
116.	Chuah Choon Keong	B Sc (Hons) (1999/2000)	Preparation and Characterization of Rubber Wood Activated Carbon.
117.	Hong Peir Huei	B Sc (Hons) (1999/2000)	Chemical Constituents from <i>Myristica fragrans</i> (Myristicaceae) and their Biological Activity.
118.	Norhaya Bte Jaafar	B Sc (Hons) (1999/2000)	Preparation and Surface Properties of <i>Salacca Edulis</i> Seed Activated Carbon.
119.	Afida Bte Tasirin	B Sc (Hons) (1999/2000)	Textural and Chemical Characterisation of Activated Carbon Prepared from Saga Stones ( <i>Adenanthera pavonina</i> L) with ZnCl <sub>2</sub> Impregnation.
120.	Donald Wong You Ngiik	B Sc (Hons) (1998/99)	A Study of V-P-O Catalyst (P/V=0.94) Prepared in Aqueous Medium for the Selective Oxidation of <i>n</i> -Butane to Maleic Anhydride.
121.	Looi Ming Hoong	B Sc (Hons) (1998/99)	A Study of V-P-O Catalyst for the Synthesis of Maleic Anhydride from Selective Oxidation of <i>n</i> -Butane.
122.	Peh Tian Hai	B Sc (Hons) (1998/99)	Chemical Constituents and Bioactivity of <i>Acalypha indica</i> .

### 3. RESEARCH

#### A. Research

	Title	Researcher	Status	Financial
1.	Preparation and Characterisation of Vanadium Oxide-Based Catalysts for Partial Oxidation Reactions	Project Leader/ Principal Researcher	Completed	Universiti Putra Malaysia under Short Term 1998 Research Fund (RM 10,000).
2.	Biologically Active Compounds from <i>Acalypha Indica</i> and <i>Micromelum minutum</i>	Project Leader/ Principal Researcher	Completed	Universiti Putra Malaysia under Short Term 1999 Research Fund (RM 10,000).
3.	Synthesis and Characterization of Vanadium-Phosphorus-Oxide Catalyst for <i>n</i> -Butane Oxidation.	Project Leader/ Principal Researcher	Completed	Universiti Putra Malaysia under Short Term 2000 Research Fund (RM 10,000).
4.	Preparation, Characterization and Application of Metal Oxide- Catalysts in Selective Heterogeneous Oxidation	Project Leader/ Principal Researcher	Completed	Ministry of Science, Technology and Environment under the Intensification of Research in Priority Areas (IRPA) mechanism, in the 7th Malaysia Plan (1999-2001), RM 120,000.00

5.	Preparation and Physico-Chemical Properties Study of Vanadium-Antimony-Oxide (V-Sb-O) Catalyst for Ammoxidation of Propane	Project Leader/ Principal Researcher	Completed	Universiti Putra Malaysia under Short Term 2001 Research Fund (RM 10,000).
6.	Synthesis, Characterisation and Application of multicomponent BiMoO <sub>x</sub> catalysts for propane activation and functionalisation to acrylic acids.	Project Leader/ Principal Researcher	Completed	Ministry of Science, Technology and Environment under the Intensification of Research in Priority Areas (IRPA) mechanism, in the 8th Malaysia Plan (Strategic Research, 2002-2006), RM 4,018,550.00
7.	Modification, Characterization and Catalytic Activity of Vanadium Phosphorus Oxide (VPO) Catalysts for the Synthesis of Maleic Anhydride from Partial Oxidation of <i>n</i> -Butane.	Project Leader/ Principal Researcher	Completed	Ministry of Science, Technology and Environment under the Intensification of Research in Priority Areas (IRPA) mechanism, in the 8th Malaysia Plan (2002-2005), RM 182,800.00
8.	Structural Determination of Chemical Isolated from <i>Clausena Excavata</i>	Project Leader	Completed	Universiti Putra Malaysia Fundamental Research Grant (2004-2005), RM 20,000.00
9.	Novel Microstructure and Reactivity of Vanadium Phosphate Catalysts for Partial Oxidation of Light Hydrocarbons	Project Leader/ Principal Researcher	Completed	Ministry of Science, Technology and Innovation under Science Fund in the 9 <sup>th</sup> Malaysian Plan (2006-2009), RM 219,800.00
10.	Mechanochemical Modification of Vanadium Phosphorus Oxide Catalysts for Petrochemical Industry	Project Leader/ Principal Researcher	Completed	Research University Grant Scheme (RUGS) (2007-2009), RM49,000.00
11.	Nanosized Vanadium Phosphate Catalysts for Selective Oxidation of <i>n</i> -Butane	Project Leader/ Principal Researcher	Completed	Research University Grant Scheme (RUGS) (2007-2009), RM75,000.00
12.	Improved Synthesis of Vanadium Oxide Based Catalysts Using Green Chemistry Approach for C4 Oxidation	Project Leader/ Principal Researcher	Completed	Ministry of Science, Technology and Innovation under Science Fund in the 9 <sup>th</sup> Malaysian Plan (2008-2011), RM 187,100.00
13.	Biomass Conversion of Empty Fruit Bunch to Syngas	Project Leader	Completed	Sime Darby (2009-2011), RM 30,000.00
14.	Investigation on Reactivity of Oxygen Species and the	Project Leader/	Completed	Research University Grant Scheme (RUGS) (2009-2011), RM 147,000.00.



	Mechanism for Partial Oxidation of <i>n</i> -Butane	Principal Researcher		
15.	Synthesis of Heterogeneous Solid Based Mixed Metal Oxide Catalysts for Transesterification of <i>Jatropha Curcas</i> Oil to Biodiesel.	Project Leader/ Principal Researcher	Completed	Ministry of Higher Education, Fundamental Research Grant Scheme (FRGS) (2009-2011), RM 30,000.00.
16.	Development of Solid Heterogeneous Catalysts for Higher Grade Biodiesel	Project Leader/ Principal Researcher	Completed	Research University Grant Scheme (RUGS) (2009-2011), RM 157,000.00.
17.	Catalytic Biomass Gasification for Hydrogen Production	Project Leader/ Principal Researcher	Completed	Ministry of Higher Education, Fundamental Research Grant Scheme (FRGS) (2011-2013), (RM51,200.00)
18.	Catalytic Empty Palm Fruit Bunch (EPFB) Gasification Over Mixed Metal Oxide Catalysts for Hydrogen Production	Project Leader/ Principal Researcher	Completed	Ministry of Higher Education, Exploratory Research Grants Scheme (ERGS) (2011-2014), RM124,000.00
19.	Nano Scale Metal and Oxide Catalysts for Production of Biomass Derived Hydrogen	Program Leader (with UTM, UKM and UTP)	Completed	Ministry of Science, Technology and Innovation under National Nanotechnology Directorate Fund (2012-2014), RM 298,000.00
20.	Hydrogen Production Via Catalytic Reforming of Biogas: Novel Catalyst Development and Reaction Optimization	Project Leader/ Principal Researcher	Completed	Research University Grant Scheme (RUGS) (2012-2014), RM 150,000.00.
21.	CO <sub>2</sub> Captured Technology for Catalytic Synthesis of Sugar Carbonate from Biorenewable Feedstock	Member Researcher (Principal Researcher at UMP)	Completed	RACE Grant Scheme (RACE) (2012-2014), RM 50,000.00.
22.	Bio-Gasoline Production from POME Derived Biogas Via Dry Reforming Fischer Tropsch Synthesis Routes Catalyzed by Rare-Earth Metal-Doped Catalysts	Member Researcher (Principal Researcher at UMP)	Completed	Ministry of Science, Technology and Innovation under Science Fund in the 10 <sup>th</sup> Malaysian Plan (2013-2015), RM 216,300.00.
23.	Catalytic Properties of CaO Nanocatalysts in Supercritical Water Gasification (SCWG) of	Member Researcher (Principal Researcher at UiTM)	Completed	Ministry of Higher Education, Fundamental Research Grants Scheme (FRGS) (2013-2015), RM69,000.00

	Oil Palm Empty Fruit Bunches			
24.	Biodiesel Production from One-Step Transesterification of Microalga Oil Using Heterogeneous Calcium Based Catalyst	Project Leader/ Principal Researcher	Completed	Putra Research University Grant Scheme (2013-2015), RM 139,200.00.
25.	Role Of Mixed Metal Oxide Catalysts Structures In Reforming Processes	Member Researcher (Principal Researcher at UMK)	Completed	Ministry of Higher Education, Fundamental Research Grants Scheme (FRGS) (2014-2016), RM92,000.00.
26.	A Novel Study of Utilizing Red Mud as a Photocatalyst in the Removal of Dye from Wastewater: A Green Technology Approach	Member Researcher (Principal Researcher at UMS)	Completed	Ministry of Education, RACE Grant Scheme (RACE) (2014-2016) RM20,000.00 .
27.	Novel Stereoselective Catalytic Transformation of Limonene into Carveol Using In-Situ Synthesized Hydrogen Peroxide	Member Researcher (Principal Researcher at UMP)	Completed	Ministry of Education, RACE Grant Scheme (RACE), (2014-2016) RM20,000.00 .
28.	An Investigation on Agrowaste-Based Selective Catalytic Reduction (SCR) Catalyst in a Denitrification of Biomass-Combustion Flue Gas	Member Researcher (Principal Researcher at UNIMAS)	Completed	Ministry of Higher Education, Fundamental Research Grants Scheme (FRGS) (2014-2017), RM126,200.00
29.	Kinetic Analysis of Heavy Metal and Bacteria Removal using PEI/Nano-Ag Membrane Incorporated With Biomass-Based Activated Carbon	Member Researcher (Principal Researcher at UNIMAS)	Completed	Ministry of Higher Education, Fundamental Research Grants Scheme (FRGS) (2014-2017), RM134,300.00 .
30.	Effect of Dopants on the Oxygen Mobility of Molybdenum Vanadium-Based Oxide Catalysts	Member Researcher (Principal Researcher at UPM)	Completed	Ministry of Higher Education, Fundamental Research Grants Scheme (FRGS) (2015-2017), RM121,500.00. .
31.	Modelling Microalgal Gasification Using Thermodynamic Equilibrium Approach	Member Researcher (Principal Researcher at UPM)	Completed	Ministry of Higher Education, Fundamental Research Grants Scheme (FRGS) (2015-2017), RM57,000.00. .
32.	Syngas Production Via CO <sub>2</sub> Reforming of Methane Using Nanocatalysts	Project Leader/ Principal Researcher	On-Going	Ministry of Higher Education, NANOMITE Grants Scheme (Top Down) (2015-2020), RM550,000.00 .

33.	Catalytic Hydrodeoxygenation of Non-edible Vegetable Oil to Green Diesel	Co Researcher Main Researcher: Prof. Dr. Karen Wilson (Aston University UK)	Completed	Royal Society International Exchanges award for overseas travel between collaborators in the UK and Malaysia (1 Oct 2016 – 30 Sept 2018), £12000.00
34.	Fundamental Investigation on Utilization of Graphene-Based Anti-Reflective Coating To Improve The Efficiency of Dye-Sensitized Solar Cell	Member Researcher (Principal Researcher at UPM)	Completed	Ministry of Higher Education, Fundamental Research Grants Scheme (FRGS) (2017-2019), RM234,905.66.
35.	Anaerobic Degradation Mechanism and Kinetics of Labile Biochar Carbon Synthesized from Cellulose and Lignin at Different Thermo-Chemical Conditions	Member Researcher (Principal Researcher at UniKL)	Completed	Ministry of Higher Education, Fundamental Research Grants Scheme (FRGS) (2017-2019), RM129,800.00.
36.	Hydrogen Production Via Low Cost Ni-Based Catalyst for Dry Reforming of Methane with Carbon Dioxide	Project Leader/ Principal Researcher	Completed	Geran Putra -IPS (2018-2020), RM 25,000.00
37.	Pyrolytic Deoxygenation of Non-Edible Oil over Transition Metal Promoted Catalyst for Green Fuel Production	Project Leader/ Principal Researcher	On-going	Geran Putra Berimpak (2018-2020), RM 140,000.00
38.	Catalytic Deoxygenation of Non-Edible Vegetable Oil to Green Diesel using Nano Carbon-Based Catalyst	Project Leader/ Principal Researcher	On-going	Geran Putra Berimpak (2018-2020), RM 149,200.00
39.	Physicochemical Properties of Modified Phosphomolybdic Acid / Hydrotalcite Catalyzed Hydrolytic Oxidation of Cellulose to Formic Acid	Member Researcher (Principal Researcher at USIM)	On-going	Ministry of Higher Education, Fundamental Research Grants Scheme (FRGS) (2019-2021), RM102,200.00.
40.	Nickel-based Hybrid Catalyst as Dual Function Materials for Sequential Carbon Capture and Methanation.	Member Researcher (Principal Researcher at UTAR)	On-going	Ministry of Higher Education, Fundamental Research Grants Scheme (FRGS) (2019-2021), RM58,800.00.

41.	Molecular and Nanoscale Catalyst Derived from Silica and Palladium Waste	Member Researcher (Principal Researcher at UiTM)	On-going	Ministry of Higher Education, Fundamental Research Grant Scheme for Research Acculturation of Early Career Researchers (RACER) (2019-2021), RM51,200.00
42.	Catalytic Deacidification of Naphthenic Acids from Petroleum Crude Oil Sample Utilizing Imidazole-Polyethylene Glycol	Member Researcher (Principal Researcher at UiTM)	On-going	Ministry of Higher Education, Fundamental Research Grant Scheme for Research Acculturation of Early Career Researchers (RACER) (2019-2021), RM51,200.00
43.	Transesterification of palm olein oil to fatty acid methyl ester using CaO- sugar cane bagasse ash as heterogeneous basic catalyst	Member Researcher (Principal Researcher at UiTM)	On-going	Ministry of Higher Education, Fundamental Research Grant Scheme for Research Acculturation of Early Career Researchers (RACER) (2019-2021), RM51,200.00
44.	Development of Effective Catalysts for Ketonization and Transketonization of Fatty Acid and Esters	Project Leader/ Principal Researcher	On-Going	Petronas Research Sdn Bhd, Malaysia (2019-2022), RM 1,000,000.00
45.	Development of Effective NiO-TMO (TMO= Ag, Fe, La, Cd, Mn, Mo) Supported on Activated Carbon for Pyrolytic Deoxygenation of Triglycerides into Renewable Biofuel	Project Leader/ Principal Researcher	On-Going	Ministry of Higher Education, Fundamental Research Grant Scheme (FRGS-MRSA) (2019-2021) RM174,200.00
46.	ZIF-8 Based Single Site Catalyst For Methane Dry Reforming And Methanation Reaction	Project Leader/ Principal Researcher	On-Going	Ministry of Higher Education, Fundamental Research Grant Scheme (FRGS) (2019-2021) RM152,700.00

#### 4. PUBLICATIONS

##### A. *Papers Published In Refereed Journals*

1. Rahmani, M., **Hin, T.Y.Y.**, H.B.M. Ismail, M.A. Sukari and A.R. Manas, Microminutinin: A Novel Coumarin from *Micromelum minutum*, *Planta Medica*, Volume **59**, page 93-94 (1993)
2. Rahmani, M., **Taufiq-Yap, Y.H.**, H.B.M. Ismail, M.A. Sukari and P.G. Waterman, New Coumarin and Dihydrocinnamic Acid Derivatives from Two Malaysian Populations of *Micromelum minutum*, *Phytochemistry*, Volume **37**, Number 2, page 561-564 (1994)
3. Rahmani, M., **Taufiq-Yap, Y.H.**, M.A. Sukari and H.B.M. Ismail, Constituents of *Acronychia laurifolia*, *Fitoterapia*, Volume **LXVII**, Number 2, page 180 (1996)

4. **Taufiq-Yap, Y.H.**, B.H. Sakakini and K.C. Waugh, On the Mechanism of the Selective Oxidation of *n*-Butane, But-1-ene and But-1,3-diene to Maleic Anhydride over a Vanadyl Pyrophosphate Catalyst, *Catalysis Letters*, Volume **46**, page 273-277 (1997)
5. **Taufiq-Yap, Y.H.**, B.H. Sakakini and K.C. Waugh, Investigation of the Nature of the Oxidant (Selective and Unselective) in/on a Vanadyl Pyrophosphate Catalyst, *Catalysis Letters*, Volume **48**, page 105-110 (1997)
6. **Taufiq-Yap, Y.H.**, K.C. Waugh and M.Z. Hussein, Vanadyl Pyrophosphate - Selective Partial Oxidation Catalyst for *n*-Butane to Maleic Anhydride, *Oriental Journal of Chemistry*, Volume **14**, page 1-6 (1998).
7. **Taufiq-Yap, Y.H.**, K.C. Waugh and B.H. Sakakini, A Low Temperature Oxygen Chemisorption Study of (VO)<sub>2</sub>P<sub>2</sub>O<sub>7</sub> And V<sub>2</sub>O<sub>5</sub> Catalysts, *Science International Journal*, Volume **10**, No. 3, page 227-228 (1998).
8. **Taufiq-Yap, Y.H.** and M. Rahmani, Microminutinin: A Potential Insect Development Inhibitors, *Tropical Biomedicine*, Volume **15** (2), page 25-28 (1998)
9. **Taufiq-Yap, Y.H.**, K.C. Waugh, M.Z. Hussein and B.H. Sakakini, A Study of Maleic Anhydride Synthesis from the Selective Oxidation of *n*-Butane over Vanadyl Pyrophosphate Catalyst by *In Situ* DRIFTS, *Journal of Ultra Scientist of Physical Sciences*, Volume **11** (3), page 235-238 (1999).
10. **Taufiq-Yap, Y.H.** and Mawardi Rahmani, Constituents of the Essential Oil from Leaves and Fruits of *Acronychia laurifolia* Blume, *ACGC Chemical Research Communications*, Volume **10**, page 45-47 (2000).
11. B.H. Sakakini, **Taufiq-Yap, Y.H.** and K.C. Waugh, A Study of the Kinetics and Mechanism of the Adsorption and Anaerobic Oxidation of *n*-Butane over a Vanadyl Pyrophosphate Catalyst, *Journal of Catalysis*, Volume **189** (2), page 253-262 (2000).
12. **Taufiq-Yap, Y.H.**, K.C. Waugh and B.H. Sakakini, Characterization of Carbonaceous Species on Vanadium Oxide-Based Catalysts by Temperature Programmed Oxidation (TPO). *Malaysian Journal of Chemistry*, Volume **2** (1), page 055-059 (2000).
13. **Taufiq-Yap, Y.H.**, Tian-Hai Peh, Gwendoline Ee Cheng Lian and Mawardi Rahmani, Chemical Investigation of *Acalypha Indica* (Euphorbiaceae), *Oriental Journal of Chemistry*, Volume **14**, page 1-6 (2000).
14. **Taufiq-Yap, Y.H.**, M.H. Looi, M.Z. Hussein and R. Samsuddin, Investigation of Vanadyl Pyrophosphate Catalysts Prepared At Different Calcination Time. *ACGC Chemical Research Communications*, Volume **12**, page 25-30 (2000).
15. G.C.L. Ee, Y.K. Lee, M. Rahmani and **Y.H. Taufiq-Yap**, Larvicidal Sesquiterpenes and Alkaloids from *Goniothalamus montanus* and *G. Malayanus* (Annonaceae), *Oriental Journal of Chemistry*, Volume **16**, page 379-382 (2000).
16. G.C.L. Ee, Y.K. Lee and **Y.H. Taufiq-Yap**, Sarawak Plants as Natural Larvicides, *Tropical Biomedicine*, Volume **17** (1), page 35-38 (2000)
17. **Taufiq-Yap, Y.H.**, T.H. Peh, P.H. Hong, G.C.L. Ee, M. Rahmani and R. Muse, Insecticidal Activity of *Acalypha indica* and *Myristica fragrans*. *Tropical Biomedicine* Volume **17** (2), page 93-95 (2000).
18. G.C.L. Ee, Y.S. Pang, M. Rahmani and **Y.H. Taufiq-Yap**, Bioactive Stryllactones from *Goniothalamus tapis*. *Research Journal of Chemistry and Environment*, Volume **4**, page 7-9 (2000).
19. **Taufiq-Yap, Y.H.**, Ita Yee-Ping Jong, Mohd. Zobir Hussein and Rosnah Samsuddin, Investigation of the Oxidizing Species in the V-Sb-Oxide Catalyst Prepared by Sol-Gel Method, *Chemical Papers*, Volume **55** (3), page 145-148 (2001).
20. G.C.L. Ee, K.N. Ng, M. Rahmani and **Y.H. Taufiq-Yap**, Larvicidal flavanone and sesquiterpenes from *Goniothalamus macrophyllus* (Annonaceae). *Asian Journal of Chemistry*, Volume **13** (2), page 550-554 (2001).

21. **Taufiq-Yap, Y.H.**, K.C. Waugh and B.H. Sakakini, Anaerobic Temperature Programmed Oxidation of 2,5-Dihydrofuran and Furan over a Vanadyl Pyrophosphate Catalyst. *ACGC Chemical Research Communications, Volume 13*, page 42-47 (2001).
22. **Taufiq-Yap, Y.H.**, M.H. Looi, K.C. Waugh, M.Z. Hussein, Z. Zainal and R. Samsuddin, The Effect of the Duration of *n*-Butane/Air Pretreatment on the Morphology and Reactivity of (VO)<sub>2</sub>P<sub>2</sub>O<sub>7</sub> Catalysts, *Catalysis Letters, Volume 74* (1–2), page 99-104 (2001).
23. **Taufiq-Yap, Y.H.** and K.C. Waugh, A Study of the Nature of the Oxidant in V<sub>2</sub>O<sub>5</sub>-MoO<sub>3</sub>/Al<sub>2</sub>O<sub>3</sub> Catalyst, *Chemical Engineering Science, Volume 56*, page 5787-5792 (2001).
24. **Taufiq-Yap, Y.H.**, M.H. Looi, D.Y.N. Wong and M.Z. Hussein, Physico-Chemical Characterization of Vanadium-Phosphorus-Oxide Catalysts Prepared in Organic and Aqueous Medium. *Jurnal Teknologi, Volume 34* (C), page 17-24 (2001).
25. **Taufiq-Yap, Y.H.**, T.H. Peh, G.C.L. Ee, M. Rahmani, A. Manaf Ali and F.B.H. Ahmad, Composition, Cytotoxicity and Larvicidal Properties of Essential Oils of *Anacardium occidentale* L. *Journal of Tropical Medicinal Plants, Volume 2* (1), page 11-12 (2001).
26. **Taufiq-Yap, Y.H.**, Ita Yee-Ping Jong, Mohd. Zobir Hussein, Irmawati Ramli and R. Samsuddin, Physico-Chemical Characterisation of V-Sb-Oxide Catalysts Prepared in Three Different Methods, *The Malaysian Journal of Analytical Sciences, Volume 7* (2), page 423-430 (2001).
27. Sugeng Riyanto, Mohd. Aspollah Sukari, Mawardi Rahmani, Gwendoline C.L. Ee, **Y.H. Taufiq-Yap**, Norio Aimi and Mariko Kitajama, Alkaloids from *Aegle marmelos* (Rutaceae), *The Malaysian Journal of Analytical Sciences, Volume 7* (2), page 463-465 (2001).
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447. Roslan, N.A., Abidin, S.Z., Osazuwa, O.U., Chin, S.Y., **Taufiq-Yap, Y.H.** H<sub>2</sub>-rich syngas from glycerol dry reforming over Ni-based catalysts supported on alumina from aluminum. *International Journal of Hydrogen Energy, Article In Press* (2021) (Q2, Impact Factor: 4.939).
448. Shamsuddin, M.R., Asikin-Mijan, N., Saiman, M.I., Marliza, T.S., Yarmo, M.A., **Taufiq-Yap, Y.H.** Evaluation of NiO/TALC Catalytic performance in carbon dioxide reforming of methane. *Journal of the Taiwan Institute of Chemical Engineers*, 122, pp. 106-117 (2021) (Q1, Impact Factor: 4.794).

449. Shamsuddin, M.R., Mansir, N., Anuar, A., Saiman, M.I., Marliza, T.S., Yarmo, M.A., **Taufiq-Yap, Y.H.** Insight into CO<sub>2</sub> reforming of CH<sub>4</sub> via NiO/dolomite catalysts for production of H<sub>2</sub> rich syngas. *International Journal of Energy Research, Article In Press.* (2021) (Q1, Impact Factor: 3.741).
450. Islam, A., Roy, S., Khan, M.A., Mondal, P., Teo, S.H., **Taufiq-Yap, Y.H.**, Ahmed, M.T., Choudhury, T.R., Abdulkreem-Alsultan, G., Khandaker, S., Awual, M.R. Improving valuable metal ions capturing from spent Li-ion batteries with novel materials and approaches. *Journal of Molecular Liquids*, 338, art. no. 116703 (2021) (Q12, Impact Factor: 6.165).
451. Teo, S.H., Islam, A., **Taufiq-Yap, Y.H.**, Awual, M.R. Introducing the novel composite photocatalysts to boost the performance of hydrogen (H<sub>2</sub>) production. *Journal of Cleaner Production*, 313, art. no. 127909. (2021) (Q1, Impact Factor: 7.246).
452. Nugraha, R.E., Prasetyoko, D., Bahruji, H., Suprpto, S., Asikin-Mijan, N., Oetami, T.P., Jalil, A.A., Vo, D.-V., **Taufiq-Yap, Y.H.** Lewis acid Ni/Al-MCM-41 catalysts for H<sub>2</sub>-free deoxygenation of Reutealis trispermaoil to biofuels. *RSC Advances*, 11 (36), pp. 21885-21896. (2021) (Q2, Impact Factor: 3.361).

### **E. Patents**

1. **Taufiq-Yap Yun Hin** and Ali Asghar Rownaghi, An Improved Process to Produce High Surface Area Nanoparticle Vanadium Phosphorus Oxide Catalyst and Product Derives Thereof, **Japan Patent No: 5574238** (Date Issued: 11 July 2014)
2. **Taufiq-Yap Yun Hin** and Ali Asghar Rownaghi, Process to produce high surface area nanoparticle vanadium phosphorus oxide catalyst and product derives thereof, **US Patent No: 8,298,981** (Date Issued: 30 Oct 2012)
3. **Taufiq-Yap Yun Hin** and Ali Asghar Rownaghi, A Process for Synthesizing Precursor of Vanadium Phosphate Oxide and Activated Catalyst Derive Thereof, **Malaysian Patent Pending (PI 20070756).**
4. **Taufiq-Yap Yun Hin** and Ali Asghar Rownaghi, An Improved Process to Produce High Surface Area Vanadium Phosphorus Oxide Catalyst and Product Derives Thereof, **Malaysian Patent Pending (PI 20071948)**
5. **Taufiq-Yap Yun Hin** and Ali Asghar Rownaghi, An Improved Process to Produce High Surface Area Vanadium Phosphorus Oxide Catalyst and Product Derives Thereof, **PCT/MY 2008/000032;**
6. **Taufiq-Yap Yun Hin** and Ali Asghar Rownaghi, Production of vanadyl hydrogen phosphate hemihydrate for vanadium phosphorus oxide catalyst comprises reacting dopants and phosphorus-containing compounds to suspended mixture of reduced vanadium-containing compounds, **European Patent (EP20080753721);**
7. **Taufiq-Yap Yun Hin** and Ali Asghar Rownaghi, Production of vanadyl hydrogen phosphate hemihydrate for vanadium phosphorus oxide catalyst comprises reacting dopants and phosphorus-containing compounds to suspended mixture of reduced vanadium-containing compounds, **Japanese Patent (2010-533019);**
8. **Taufiq-Yap Yun Hin** and Ali Asghar Rownaghi, Production of vanadyl hydrogen phosphate hemihydrate for vanadium phosphorus oxide catalyst comprises reacting dopants and phosphorus-containing compounds to suspended mixture of reduced vanadium-containing compounds, **World Intellectual Property Organization (WIPO) (WO/2009/061167)**
9. **Taufiq-Yap Yun Hin** and Lee Hwei Voon, A Method of Producing Biodiesel Using Heterogeneous Catalytic System. **Malaysian Patent Pending (PI 2011001762).**

10. **Taufiq Yap Yun Hin**, Aqilah Noor Bahari and Mahiran Basri, A Method of Producing Biodiesel Using Oil Containing High Content of Free Fatty Acids. **Malaysian Patent (PI 2011004619)**.
11. **Taufiq Yap Yun Hin** and Sudarno, Catalysts for Syngas Production and a Method Using The Same **Malaysian Patent Pending (PI 2012003183)**.
12. **Taufiq-Yap Yun Hin** and Lee Hwei Voon, A Method of Producing Biodiesel Using Heterogeneous Catalytic System, **European Patent Application (EP12165142)**
13. **Taufiq-Yap Yun Hin** and Sivasangar Seenivasagam. A catalyst applicable for gasification of biomass and a method using the same, **Malaysian Patent Pending (PI2013701336)**.

## *F. Books/Chapter in Book*

### *Books*

1. **Taufiq-Yap, Y.H.** and F.B.H. Ahmad, Pengenalan Tatanama Kimia Organik [Introduction to Organic Chemistry Nomenclature], UPM Publisher, 2000, ISBN: 983-9319-90-9.
2. Mawardi Rahmani, Marziah Mahmood, Mohd. Aspollah Hj. Sukari, Gwendoline Ee Cheng Lian, **Taufiq-Yap Yun Hin**, Daud Ahmad Israf Ali (Editor), Interdisciplinary Approaches in Natural Products Research, UPM Publisher, 2001, ISBN: 967-960119-6.
3. Ramli, E.N. Muhammad, A.H. Abdullah, **Y.H. Taufiq-Yap** and S.B. Abdul Hamid (2004), Influence of Number of Washing on the Characteristic of Nanocrystalline Copper Oxide Powders, Nanotech 2004, Vol. 3, Pages 99-102. ISBN: 0-9728422-9-2.
4. **Yun Hin Taufiq-Yap** and Kok Leong Theam (2009), Modification and microstructure study of vanadyl pyrophosphate catalysts synthesized via hydrothermal method, Proceedings of the Seminar on Science and Technology, pages 40-46 (ISBN 978-983-2641-30-8).
5. **Y.H. Taufiq Yap** (2009), Catalysis for a Sustainable World, UPM Press, ISBN: 978-967-344-080-1.
6. Md. Aminul Islam, M. Moniruzzaman, **Yun Hin Taufiq-Yap** (2013), Characterization of anomalous Fe-Ni Alloy coating: By electrodeposition and its properties, Scholar's Press, ISBN-10: 3639512065 ISBN-13: 978-3639512069
7. Aminul Islam, **Yun Hin Taufiq-Yap** and Eng-Seng Chan (2014), Advanced Technologies in Biodiesel: Introduction to Principles and Emerging Trends, Momentum Press, ISBN: 9781606505021.
8. Aminul Islam, **Yun Hin Taufiq-Yap**, Siow Hwa Teo and Eng-Seng Chan (2015), Advanced Technologies in Biodiesel: New Advances in Designed and Optimized Catalysts, Momentum Press, ISBN: 9781606505045.

### *Chapter in Book*

1. K. Mumtaz Begam, M.S. Michael, **Y.H. Taufiq-Yap** and S.R.S. Prabakaran (2002), A New Electrode with Polyanion – (MoO<sub>4</sub>)<sub>3</sub> as Cathode for Lithium Ion Batteries, In B.V.R. Chowdari, S.R.S. Prabakaran, M. Yahaya and I.A. Talib (Eds). Solid State Ionics: Trends in The New Millenium, World Scientific Publishing Co. Pte. Ltd., Singapore. ISBN 981-238-248-8.
2. Ramli, M.N. Noorfarizan Nasriah, **Y.H. Taufiq-Yap** and S.B. Abdul Hamid (2003), Characterization of Bismuth Oxide Catalysts Prepared from Bismuth Trinitrate Pentahydrate In Zaini B. Assim, Fasihuddin B. Ahmad, Ismail B. Jusoh, Lau Seng and Murtedza Mohamed (Eds). Analytical Chemistry: Application and Current Issues. ISBN 983-9257-33-1.

3. **Y.H. Taufiq-Yap**, L.K. Leong, I. Ramli, M.Z. Hussein and S.B. Abdul Hamid, Effect of Nb Dopant on the Structure and Morphology of Vanadyl Pyrophosphate Catalysts (2003), In Zaini B. Assim, Fasihuddin B. Ahmad, Ismail B. Jusoh, Lau Seng and Murtedza Mohamed (Eds). Analytical Chemistry: Application and Current Issues. ISBN 983-9257-33-1.
4. I. Ramli, K. Nor Hidayaty, A.H., Abdullah, **Y.H. Taufiq-Yap**, S.B. Abdul Hamid, Influence of Precipitating Agents on the Characteristic of Bismuth Oxide Catalysts (2003), In Zaini B. Assim, Fasihuddin B. Ahmad, Ismail B. Jusoh, Lau Seng and Murtedza Mohamed (Eds). Analytical Chemistry: Application and Current Issues. ISBN 983-9257-33-1.
5. Ahmad Zubaidi Baharumshah, **Yun Hin Taufiq-Yap** and Mohd Zobir Hussein (2012), Publication In Jayum Jawan and Tan Soon Guan (Eds). Supervising Graduate Research. UPM Press, ISBN 978-976-344-288 1
6. **Y. H. Taufiq-Yap**, H. V. Lee (2013), Higher Grade Biodiesel Production by Using Solid Heterogeneous Catalysts, In Ravindra Pogaku and Rosalam Hj. Sarbatly (Eds). Advances in Biofuels, Springer, ISBN: 978-1-4614-6248-4 (Print) 978-1-4614-6249-1 (Online).
7. G. Abdulkareem-Alsultan, N. Asikin-Mijan, H. V. Lee, **Y. H. Taufiq-Yap**, (2020) Biofuels: Past, Present, Future, In shwani K. Gupta, Ashoke De, Suresh K. Aggarwal, Abhijit Kushari, Akshai Runchal (Eds). Innovations in Sustainable Energy and Cleaner Environment, Springer, ISBN: 978-981-13-9011-1 (Print) 978-981-13-9012-8 (Online).
8. **Y. H. Taufiq-Yap**, M. S. Ahmad Farabi, O. N. Syazwani, M. Lokman Ibrahim, T. S. Marliza (2020). Sustainable Production of Bioenergy, In Ashwani K. Gupta, Ashoke De, Suresh K. Aggarwal, Abhijit Kushari, Akshai Runchal (Eds). Innovations in Sustainable Energy and Cleaner Environment, Springer, ISBN: 978-981-13-9011-1 (Print) 978-981-13-9012-8 (Online).
9. **Yun Hin Taufiq-Yap**, Nasar Mansir (2019), Production and Characterization of Biodiesel through Catalytic Routes, In Sonil Nanda, Prakash Kumar Sarangi, Dai-Viet N. Vo (Eds). Fuel Processing and Energy Utilization, ISBN 9780429489594 (Online).
10. Alsultan Abdulkareem Ghassan, Nurul-Asikin Mijan and **Yun Hin Taufiq-Yap** (2020), Nanomaterials: An Overview of Nanorods Synthesis and Optimization, In Morteza Sasani Ghamsari and Soumen Dhara (Eds). Nanorods and Nanocomposites, IntechOpen, ISBN: 978-1-78984-468-9 (Print), 978-953-51-6331-2 (Online).
11. Abdulkareem-Alsultan G., Asikin-Mijan N., **Taufiq-Yap Y.H.** (2021) Future Aviation Biofuel, Efficiency and Climate Change. In: De A., Gupta A., Aggarwal S., Kushari A., Runchal A. (Eds) Sustainable Development for Energy, Power, and Propulsion. Green Energy and Technology. ISBN: 978-981-15-5666-1 (Print), 978-981-15-5667-8 (Online).

#### **G. Thesis and Report**

1. Bioactive Constituents from *Micromelum minutum* (Rutaceae)  
Final Year Project Report, Universiti Pertanian Malaysia, 1992.
2. Chemical Constituents of *Micromelum minutum* and *Acronychia laurifolia* (Rutaceae), M. Sc. thesis, Universiti Pertanian Malaysia, 1994.
3. A Study of Kinetics and Mechanism of Partial Oxidation of *n*-Butane and 1-Butene to Maleic Anhydride, Ph.D. thesis, University of Manchester Institute of Science and Technology (UMIST), United Kingdom, 1997.

### **5. PARTICIPATION IN CONFERENCE, WORKSHOP, ETC.**

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#### **A. As paper presenter**

1. 9<sup>th</sup> Annual National Seminar of Natural Products, Universiti Pertanian Malaysia, 21<sup>st</sup>-22<sup>nd</sup> October, 1992.
2. 10<sup>th</sup> Annual Seminar and UNESCO Regional Workshop on "The Bioassay Guided Isolation of Natural Products", Universiti Kebangsaan Malaysia, 19<sup>th</sup>-23<sup>rd</sup> October, 1993.
3. Seminar on Study Skills, University of Manchester Institute of Science and Technology (UMIST), United Kingdom, 21<sup>st</sup> September 1995.
4. Malaysian Student Symposium, Leeds Metropolitan University, United Kingdom, 30<sup>th</sup> November 1996.
5. Physical Chemistry Colloquium, Chemistry Department, University of Manchester Institute of Science and Technology (UMIST), 21<sup>st</sup> May 1997.
6. Department of Chemistry Seminar, Universiti Putra Malaysia, 29<sup>th</sup> November 1997.
7. International Science Conference, Kuala Lumpur '98, Universiti Putra Malaysia, 7<sup>th</sup>-9<sup>th</sup> May 1998.
8. 6<sup>th</sup> Annual National Seminar on Industrial Chemistry, Universiti Putra Malaysia, 13<sup>th</sup> October 1998.
9. 14<sup>th</sup> Annual Seminar on Natural Products, Universiti Kebangsaan Malaysia, 21<sup>st</sup>-22<sup>nd</sup> October 1998.
10. 11<sup>th</sup> Annual Malaysian Symposium on Analytical Chemistry, Universiti Teknologi Malaysia, 4<sup>th</sup>-5<sup>th</sup> November 1998.
11. Malaysian Chemical Congress '98, Dynasty Hotel, Kota Kinabalu, Sabah, 23<sup>rd</sup>-25<sup>th</sup> November 1998.
12. Seminar on "Environmental Quality: 25 Years of Endeavour in Malaysia", Merdeka Palace, Kuching, Sarawak, 22<sup>nd</sup>-23<sup>rd</sup> March 1999.
13. 12<sup>th</sup> Annual Malaysian Symposium on Analytical Chemistry, Universiti Putra Malaysia Terengganu, Kuala Terengganu, Terengganu, 7<sup>th</sup>-8<sup>th</sup> September 1999.
14. 15<sup>th</sup> Malaysian National Natural Products Seminar, Universiti Sains Malaysia, Penang, 2<sup>nd</sup>-3<sup>rd</sup> November 1999.
15. Indonesia-Malaysia-Thailand Growth Triangle (IMT-GT) Regional Seminar, Universiti Sains Malaysia, Penang, 2<sup>nd</sup>-3<sup>rd</sup> November 1999.
16. Malaysian Chemical Congress '99, Hotel Hilton, Kuching, Sarawak, 8<sup>th</sup>-10<sup>th</sup> November 1999.
17. 6<sup>th</sup> Eurasia Conference on Chemical Sciences, Universiti Brunei Darussalam, Bandar Seri Begawan, Negara Brunei Darussalam, 27<sup>th</sup> February - 2<sup>nd</sup> March 2000.
18. 7<sup>th</sup> Annual National Seminar on Industrial Chemistry, Universiti Putra Malaysia, 23<sup>rd</sup> March 2000.
19. 13<sup>th</sup> Annual Malaysian Symposium on Analytical Chemistry, Paradise Lagoon Hotel, Port Dickson, 5<sup>th</sup>-6<sup>th</sup> September 2000.
20. Malaysian Science and Technology Congress 2000, Promenade Hotel, Kota Kinabalu, Sabah, 18<sup>th</sup>-20<sup>th</sup> September 2000.
21. Malaysian Chemical Congress 2000, Hotel Casuarina Park Royal, Ipoh, Perak, 16<sup>th</sup>-18<sup>th</sup> October 2000.
22. 16<sup>th</sup> National Seminar on Natural Products, Mine Beach Resorts and Spa, Selangor, 24<sup>th</sup>-25<sup>th</sup> October 2000.
23. First Regional Seminar in Inorganic Chemistry, Universiti Sains Malaysia, Penang, 14<sup>th</sup>-15<sup>th</sup> November 2000.
24. 14<sup>th</sup> Annual Malaysian Symposium on Analytical Chemistry, Century Mahkota Hotel, Melaka, 11<sup>th</sup>-13<sup>th</sup> September 2001.
25. 4<sup>th</sup> World Congress on Oxidation Catalysis, Berlin, Germany, 16<sup>th</sup>-21<sup>st</sup> September 2001.
26. 8<sup>th</sup> Annual National Seminar on Industrial Chemistry, Universiti Putra Malaysia, 19<sup>th</sup> September 2001.
27. UPM Residential Colleges Master Retreat, Malacca, 5<sup>th</sup>-7<sup>th</sup> October 2001.
28. 17<sup>th</sup> National Seminar on Natural Products, Shah Alam, Selangor, 17<sup>th</sup>-18<sup>th</sup> October 2001.
29. 1<sup>st</sup> Malaysian Conference on Catalysis, Universiti Putra Malaysia, 12<sup>th</sup>-13<sup>th</sup> November 2001.

30. Expo S&T 2002, 2<sup>nd</sup>-4<sup>th</sup> November 2002, organized by Ministry of Science, Technology and Environment of Malaysia, at PWTC Kuala Lumpur.
31. Invention and Research Exhibition 2002, Universiti Putra Malaysia, 30<sup>th</sup> August 2002.
32. Seminar Update on Microscopy and Microanalysis, Universiti Putra Malaysia, 7<sup>th</sup>-8<sup>th</sup> May 2002.
33. Fourth Tokyo Conference on Advanced Catalytic Science and Technology (TOCAT), 14<sup>th</sup>-19<sup>th</sup> July 2002, Tokyo, Japan.
34. 2<sup>nd</sup> World Engineering Congress, 22<sup>nd</sup>-25<sup>th</sup> July 2002, Kuching, Sarawak
35. 14<sup>th</sup> Annual Malaysian Symposium on Analytical Chemistry, Bayview Beach Resort, Penang 10<sup>th</sup>-12<sup>th</sup> September 2002.
36. 18<sup>th</sup> Annual Seminar on Natural Products, 23<sup>rd</sup>-24<sup>th</sup> October 2002, Promenade Hotel Kota Kinabalu, Sabah.
37. 8<sup>th</sup> Asian Conference on Solid State Ionics: Trends in the New Millenium, 15<sup>th</sup>-19<sup>th</sup> December 2002, Langkawi, Malaysia.
38. Invention and Research Exhibition 2003, Universiti Putra Malaysia, 8<sup>th</sup>-10<sup>th</sup> July 2003.
39. Seminar Update on Microscopy and Microanalysis 2003, 28<sup>th</sup>-29<sup>th</sup> May 2003, Universiti Putra Malaysia.
40. 6<sup>th</sup> European Conference on Catalysis (EUROPACAT-VI), Innsbruck, Austria, 31<sup>st</sup> August-4<sup>th</sup> September 2003.
41. 16<sup>th</sup> Annual Malaysian Symposium on Analytical Chemistry, Kuching, Sarawak, 9<sup>th</sup>-11<sup>th</sup> September 2003.
42. 3<sup>rd</sup> Asia-Pacific Congress on Catalysis (APCAT3), Dalian, China, 12-15<sup>th</sup> October, 2003.
43. Regional Conference for Young Chemists 2004, Universiti Sains Malaysia, Penang, Malaysia, 13-14<sup>th</sup> April 2004.
44. The 13<sup>th</sup> International Congress on Catalysis, Paris, France, 11-16<sup>th</sup> July 2004.
45. 17<sup>th</sup> Annual Malaysian Symposium on Analytical Chemistry, Swiss-Garden Resort & Spa, Pantai Balok, Kuantan, Pahang, 24-26<sup>th</sup> August 2004.
46. 4<sup>th</sup> Malaysian International Conference on Essential Oils and Fragrance and Flavour Materials, Kangar, Perlis, Malaysia, 8-11<sup>th</sup> May 2005.
47. 40<sup>th</sup> IUPAC Congress, Beijing, China, 14-19<sup>th</sup> August 2005.
48. 5<sup>th</sup> World Congress on Oxidation Catalysis, Sapporo, Hokkaido, Japan, 25-30<sup>th</sup> September 2005.
49. Regional Symposium on Chemical Engineering 2005 (RSCE 2005), Hanoi, Vietnam, 29<sup>th</sup> November-2<sup>nd</sup> December 2005.
50. 2<sup>nd</sup> International Conference on Chemical and Bioprocess Engineering, Kota Kinabalu, Sabah, Malaysia, 8-10<sup>th</sup> December 2005.
51. Annual Surface Reactivity and Catalysis Conference (SURCAT), Cardiff, United Kingdom, 25-27<sup>th</sup> July 2006 (**Invited Speaker**).
52. Indonesian National Seminar on Chemistry, Surabaya, Indonesia, 8<sup>th</sup> August 2006 (**Plenary Speaker**).
53. 8<sup>th</sup> Eurasia Conference on Chemical Sciences, Antalya, Turkey, 8-16<sup>th</sup> September 2006 (**Invited Speaker**).
54. International Conference and Exhibition on Green Chemistry and Malaysian Chemical Congress (MCC 2006), Sunway Pyramid Convention Centre, Malaysia, 19-21<sup>st</sup> September 2006 (**Invited Speaker**).
55. 4<sup>th</sup> Asia Pasific Congress on Catalysis (APCAT4), Singapore, 5-8<sup>th</sup> December 2006.
56. Regional Annual Fundamental Science Seminar 2007, Universiti Teknologi Malaysia, Skudai, Johore, Malaysia, 28-29<sup>th</sup> May 2007 (**Invited Speaker**).
57. 13<sup>th</sup> International Symposium on Relation of Heterogeneous and Homogeneous Catalysis, University of California at Bekerley, US, 16<sup>th</sup>-22<sup>nd</sup> July 2007.
58. 12<sup>th</sup> Asian Chemical Congress, Kuala Lumpur, August 23-25, 2007 (**Keynote Speaker**).

59. Manuscript Writing Workshop, Faculty of Science, UPM. 14-16<sup>th</sup> November 2007 (**Invited Facilitator**).
60. 36<sup>th</sup> International Exhibition of Inventions of Geneva, Switzerland, 2-4<sup>th</sup> April 2008 (Won Silver Medal).
61. 6<sup>th</sup> International Symposium on Group Five Elements, Poznan, Poland, 7-10<sup>th</sup> May 2008.
62. 4<sup>th</sup> International Conference on X-Rays and Related Techniques in Research and Industries (ICXRI 2008), Kota Kinabalu, Sabah, 2-6<sup>th</sup> June 2008.
63. Manuscript Writing Workshop, Faculty of Science, UPM. 24-25<sup>th</sup> June 2008 (facilitator).
64. International Conference on Nanocatalysis, Dalian, China, 9-12<sup>th</sup> July 2008.
65. 14<sup>th</sup> International Congress on Catalysis, Seoul, South Korea, 13-19<sup>th</sup> July, 2008
66. 7<sup>th</sup> Annual Seminar on Science and Technology, Labuan, Malaysia, 29-30<sup>th</sup> Oktober 2008.
67. 21<sup>st</sup> Annual Malaysian Symposium on Analytical Chemistry, Universiti Malaysia Sabah, 25-27<sup>th</sup> November 2008.
68. 1<sup>st</sup> Seminar on Catalysis Science and Technology, Universiti Putra Malaysia, 3<sup>rd</sup> December 2008 (**Invited Speaker**).
69. International Conference on Science and Technology: Application in Industry and Education (ICSTIE 2008), UiTM Pulau Pinang, Malaysia, 12-13 December 2008.
70. 1<sup>st</sup> AUN/SEED-Net Regional Conference on Materials 2009, Penang, 16-17<sup>th</sup> February 2009.
71. Taibah International Chemistry Conference 2009, Madina, Saudi Arabia, 23-25<sup>th</sup> March 2009.
72. Manuscript Writing Workshop, Department of Physics, Faculty of Science, UPM. 22<sup>nd</sup> May 2009 (**Invited Speaker**)
73. Second International Conference and Workshops on Basic and Applied Sciences, Johor Bahru, Malaysia, 2<sup>nd</sup>-4<sup>th</sup> June 2009.
74. 6<sup>th</sup> World Congress on Oxidation Catalysis, Lille, France, 5-10<sup>th</sup> July 2009.
75. 10<sup>th</sup> Asian Conference on Analytical Sciences (Asianalysis X 2009), Kuala Lumpur, 11-13<sup>th</sup> August 2009 (**Keynote Speaker**).
76. 3<sup>rd</sup> International Conference on Chemical and Bioprocess Engineering (ICCBPE-2009), Universiti Malaysia Sabah, 12-14<sup>th</sup> August 2009.
77. 3<sup>rd</sup> International Conference on Engineering for Waste and Biomass Valorisation, 17-19<sup>th</sup> May 2010, Beijing, China.
78. International Conference on X-Rays & Related Techniques in Research & Industry (ICXRI 2010), 9-10<sup>th</sup> June 2010, Langkawi, Kedah, Malaysia.
79. 6<sup>th</sup> Tokyo Conference on Catalysis and 5<sup>th</sup> Asia Pacific Congress on Catalysis, 18-23<sup>th</sup> July 2010, Sapporo, Hokkaido, Japan.
80. 3<sup>rd</sup> International Conference on Southeast Asian Natural Resources and Environmental Management (SANREM2010), 3-5<sup>th</sup> August 2010, Kota Kinabalu, Sabah, Malaysia.
81. International Conference on Environment 2010 (ICENV 2010), 13-15<sup>th</sup> December 2010, Penang, Malaysia
82. Indonesian National Conference on Chemical Engineering Science and Applications, 22<sup>nd</sup> December 2010, Banda Aceh, Indonesia (**Keynote Speaker**).
83. International Conference on Renewable Energy (ICRE 2011), 17<sup>th</sup>-21<sup>st</sup> January 2011, Jaipur, India (**Guest and Keynote Speaker**).
84. The Rideal Conference Cardiff, 19<sup>th</sup>-21<sup>st</sup> April 2011, Cardiff, Wales, United Kingdom.
85. International Conference Humanities, Social Sciences and Science/Technology, (ICHSST '11), 27-28<sup>th</sup> June 2011, Manchester, UK. (**Invited as Expert Panel**).
86. International Seminar on the Application of Science and Mathematics 2011 (ISASM 2011), 1-3 November 2011, Kuala Lumpur, Malaysia (**Keynote Speaker**).
87. The 24<sup>th</sup> Regional Symposium of Malaysia Analytical Sciences (SKAM24), 21-23<sup>rd</sup> November 2011, Langkawi, Malaysia (**Keynote Speaker**).



88. International Symposium on Ecotopia Science (ISETS '11), 9-11 December 2011, Nagoya University, Nagoya Japan (**Chair Session**).
89. Reaction Box Seminar, 10<sup>th</sup> April 2012, Faculty of Chemical Engineering and Natural Resources, Universiti Malaysia Pahang, Kuantan, Pahang (**Invited Speaker**)
90. Saudi Science Conference 2012, 16-18<sup>th</sup> April 2012, Makkah, Saudi Arabia.
91. Biomass Conference 2012, 10-11<sup>th</sup> July 2012, Sheraton Imperial, Kuala Lumpur (**Invited Speaker**)
92. Advanced Biofuel Workshop, 26-27<sup>th</sup> September 2012, Universiti Malaysia Sabah. (**Invited Speaker**)
93. 17<sup>th</sup> Malaysia Chemical Congress, 16-18<sup>th</sup> October 2012, Kuala Lumpur (**Plenary Speaker**)
94. International Conference on Emerging Advanced Nanomaterials (ICEAN 2012), 22-25<sup>th</sup> October 2012, Brisbane, Australia (**Invited Speaker**).
95. 3<sup>rd</sup> ISESCO International Workshop and Conference on Nanotechnology (IWCN 2012), 5-7<sup>th</sup> December 2012, UKM Bangi, Selangor. (**Invited Speaker**)
96. 4<sup>th</sup> International Conference for Young Chemists (ICYC) 2013, City Bayview Hotel, Penang, Malaysia, 30<sup>th</sup> January - 1<sup>st</sup> February 2013. (**Invited Speaker**)
97. International Conference on Agriculture, Food, Energy, and Sustainability, Padang, Indonesia, 12-15<sup>th</sup> May 2013 (**Plenary Speaker**)
98. 1<sup>st</sup> National Postgraduate Fundamental and Applied Sciences Seminar 2013 (UTAR NPFASS 2013), 13-14<sup>th</sup> May 2013 (**Keynote Speaker**)
99. 15<sup>th</sup> Asian Chemical Congress, Singapore, 19<sup>th</sup>-23<sup>rd</sup> August 2013 (**Invited Speaker and Chair Session**)
100. 3<sup>rd</sup> ITB Catalysis Symposium, Bandung, Indonesia, 3-4<sup>th</sup> September 2013 (**Keynote Speaker**)
101. 7<sup>th</sup> International Conference Chemical Engineering on Science and Applications (ChESA 2013), Banda Aceh, Indonesia, 18-19<sup>th</sup> September 2013 (**Chair Session**)
102. 6<sup>th</sup> Asia-Pacific Congress on Catalysis, Taipei, Taiwan, 13-17<sup>th</sup> October 2013 (**Chair Session**)
103. International Conference on the Advancement of Materials and Nanotechnology III (ICAMN III 2013), Penang, Malaysia 21<sup>st</sup>-22<sup>nd</sup> Nov 2013 (**Invited Speaker and Chair Session**).
104. International Symposium on EcoTopia Science 2013 (ISETS'13), Nagoya University, Nagoya, Japan 13-15<sup>th</sup> December 2013 (**Invited Speaker**).
105. International Conference of Biochemical and Chemical Sciences (ICBCS-2014), University of Agriculture Faisalabad, Pakistan, February 24-26, 2014 (**Keynote Speaker**).
106. Second International Conference on Global Environmental Changes, Government College University Faisalabad, Pakistan, February 25-26, 2014 (**Keynote Speaker**).
107. 4<sup>th</sup> KACST-Oxford Petrochemicals Forum, Riyadh, Saudi Arabia, 26-27 May 2014 (**Invited Speaker**)
108. The International Conference on Tropical and Coastal Region Eco-development 2014, Diponegoro University, Semarang, Indonesia, August 11-13<sup>th</sup> 2014 (**Keynote Speaker**)
109. International Workshop on Sustainable Energy Power and Propulsion, Jadavpur University, Janury 5 - 7, 2015 (**Invited Speaker and Chair Session**)
110. Southeast Asia Catalysis Conference 2015 (SACC2015), Singapore, July 14-15<sup>th</sup> 2015 (**Invited Speaker, Chair Session and International Scientific Committee Member**)
111. International Conference on Green Sustainable Chemistry (GSC-7), Tokyo, Japan, July 5-8<sup>th</sup>, 2015 (**Keynote Speaker**)
112. 4<sup>th</sup> International Conference on Chemical Science (4<sup>th</sup> ICCS), Andalas University, Padang, West Sumatera, Indonesia, September 15-17<sup>th</sup>, 2015 (**Keynote Speaker**)
113. 1<sup>st</sup> International Symposium on Sustainable Green Science and Technology, King Mongkut's University of Technology North Bangkok, October 8, 2015 (**Invited Speaker**)
114. International Workshop on Sustainable Energy Power and Propulsion, Lucknow, India, December 21-23, 2015 (**Invited Speaker**).

115. International Workshop on Energy, Propulsion and Environment, Indian Institute of Technology, Kanpur, India, March 8-11, 2017 (**Invited Speaker**)
116. International Symposium on Pure and Applied Chemistry (ISPAC) 2017, Chemical Society of Vietnam, Ho Chi Minh, Vietnam, 8-10<sup>th</sup> June 2017 (**Plenary Speaker**).
117. International Conference on Sustainable Agriculture, Food and Energy (SAFE2017), Asia Pacific Network for Sustainable Agriculture, Food and Energy, 22-24 August 2017 (**Keynote Speaker**)
118. International Conference on Chemistry and Material Science (IC2MS) 2017, Brawijaya University, Malang, Indonesia, 4-5<sup>th</sup> November 2017 (**Keynote Speaker**)
119. Persidangan Antarabangsa Hubungan Tamadun Melayu-Tamadun China, ISTAC, Universiti Antarabangsa Islam Malaysia, 14 Mei 2018 (**Invited Speaker**).
120. International Conference on Human Development, Beijing, China, 21 July 2018 (**Keynote Speaker**)
121. 8<sup>th</sup> Tokyo Conference on Advanced Catalytic Science and Technology (TOCAT 8), Yokohama, Japan, August 2018 (**Invited Speaker**).
122. 3<sup>rd</sup> International Conference on Mathematics, Science, Education and Engineering (ICOMSET2018), Universiti Negeri Padang, 4-5 Oct 2018 (**Keynote Speaker**).
123. General Lecture at Universiti Negeri Padang, 30 Oct 2018 (**Invited General Lecture**)
124. 2<sup>nd</sup> International Conference on Catalysis 2018, Bangi Resort Hotel, 14-15 Nov 2018 (**Chairman, Organizing Committee**)
125. 1<sup>st</sup> International Conference on Chemistry, Pharmacy and Medical Science 2018, Universitas Bengkulu, Sumatera, Indonesia, 28-30 Nov 2018 (**Plenary Speaker**)
126. Workshop on Recent Trends on Nano-Catalysis, University of Malaya, 13 March 2019 (**Keynote Lecture**).
127. International Workshop on Energy, Power and Environment, National Institute of Technology, Kurukshetra, India, 17-19 March 2019 (**Keynote Speaker**).
128. The Symposium on Fuel Cell and Hydrogen Technology 2019, UKM, Bangi, Selangor, 17-18 April 2019 (**Keynote Speaker**)
129. Workshop on 'Ukhuwah Cemerlang Akademia Gemilang PPA 2019' Academic Officer Association UPM. 29 May 2019 (**Invited Speaker**)
130. Energy Security and Chemical Engineering Congress 2019, Penang, Malaysia, 17-19 July 2019 (**Keynote Speaker**)
131. International Conference on Food and Bio-Industry, Bandung, Indonesia, 29-30 July 2019 (**Keynote Speaker**)
132. 8<sup>th</sup> International Conference of the Indonesian Chemical Society, Bogor, Indonesia, 6-7 Aug 2019 (**Distinguished Speaker**).
133. 8<sup>th</sup> Asia Pacific Congress on Catalysis (APCAT8), Bangkok, Thailand 4-7 August 2019 (**Keynote Speaker**)
134. 7<sup>th</sup> Asian Conference on Coordination Chemistry (ACCC7), Kuala Lumpur, Malaysia, 15-18 Oct 2019 (**Keynote Lecture**)
135. 6<sup>th</sup> International Research Management and Innovation Conference (IRMIC) 2019, International Islamic University College Selangor (KUIS), 30-31 October 2019 (**Keynote Speaker**).
136. International Conference on Materials and Systems for Sustainability 2019 (ICMaSS2019), Nagoya, Japan, 1-3 November 2019 (**Invited Speaker**)
137. International Workshop on Energy, Environment and Multiphase Flows, IIT Kanpur, India, 24-25 Feb 2020 (**Invited Speaker**)
138. The 2<sup>nd</sup> International Conference and Exhibition on Sciences and Technology (ICEST 2020), Universitas Nusa Tenggara, Kupang-Indonesia, 6-7 Nov 2020 (**Keynote Speaker**) – Presented online.

139. 32<sup>nd</sup> Symposium of Malaysian Chemical Engineers (SOMChE), Swinburne University of Technology Sarawak, 15–16 July 2021 (**Plenary Speaker**) – Presented online.

**B. As a member of the organising committee**

1. 9<sup>th</sup> Annual National Seminar of Natural Products, Universiti Pertanian Malaysia, 21<sup>st</sup>-22<sup>nd</sup> October, 1992.
2. 2<sup>nd</sup> Annual National Seminar on Industrial Chemistry, Universiti Pertanian Malaysia, 7<sup>th</sup> April, 1994.
3. Course on PowerPoint for Lecturer in Chemistry Department, Universiti Putra Malaysia, 29<sup>th</sup> October, 1997.
4. International Science Conference, Kuala Lumpur '98, Universiti Putra Malaysia, 7<sup>th</sup>-9<sup>th</sup> May 1998.
5. 6<sup>th</sup> Annual National Seminar on Industrial Chemistry, Universiti Putra Malaysia, 13<sup>th</sup> October 1998.
6. Strategic Planning and Consultation Workshop to Achieve Higher Education Institute Award, 7<sup>th</sup> October 1999.
7. 7<sup>th</sup> Annual National Seminar on Industrial Chemistry, Universiti Putra Malaysia, 23<sup>rd</sup> March 2000 (**Secretary**).
8. Leadership and Organizational Workshop, Wira Waja Camp, Janda Baik, Pahang, 10<sup>th</sup>-13<sup>th</sup> May 2000 (**Chairman**).
9. 13<sup>th</sup> Annual Malaysian Symposium on Analytical Chemistry, Paradise Lagoon Hotel, Port Dickson, 5<sup>th</sup>-6<sup>th</sup> September 2000.
10. 16<sup>th</sup> National Seminar on Natural Products, Mine Beach Resorts and Spa, Selangor, 24<sup>th</sup>-25<sup>th</sup> October 2000, (**Secretary**).
11. Malaysian Conference on Catalysis (MyCat1), IDEAL Conference Hall, Universiti Putra Malaysia, 12-13<sup>th</sup> November 2001, (**Chairman**).
12. Herbal Simposium 2003, Pagoh, Johor, Malaysia, 25<sup>th</sup> January 2003.
13. 4<sup>th</sup> Malaysian International Conference on Essential Oils and Fragrance and Flavour Materials, Kangar, Perlis, 8-11<sup>th</sup> May 2005.
14. International Conference and 19<sup>th</sup> Annual Malaysian Symposium on Analytical Chemistry, Malacca, 21-24<sup>th</sup> August 2006 (**Chairman**).
15. 2<sup>nd</sup> Malaysian Catalysis Conference (MyCat2), Malacca, 21-24<sup>th</sup> August 2006 (**Chairman**).
16. International Conference and Exhibition on Green Chemistry and Malaysian Chemical Congress (MCC 2006), Sunway Pyramid Convention Centre, 19-21<sup>st</sup> September 2006.
17. Half-day Seminar on Oxidation Catalysis, UPM, 22<sup>nd</sup> August 2007 (**Chairman**).
18. 12<sup>th</sup> Asian Chemical Congress (12ACC), PWTC, Kuala Lumpur, 6-8<sup>th</sup> September 2007 (**National Organising Committee and Chairman for Physical and Theoretical Chemistry Session**).
19. Industrial Chemistry Seminar XII, Putrajaya, Malaysia, 5<sup>th</sup> April 2008 (**Deputy Treasurer and Session Chairman**).
20. 1<sup>st</sup> Seminar on Catalysis Science and Technology, Centre of Excellence for Catalysis Science and Technology, Faculty of Science, Universiti Putra Malaysia, 3<sup>rd</sup> December 2008 (**Chairman**).
21. Industrial Chemistry Seminar XIII, Putrajaya, Malaysia, 11<sup>th</sup> April 2009 (**Deputy Organizing Chairman and Session Chairman**).
22. Industrial Chemistry Seminar XIV, UPM, Malaysia, 10<sup>th</sup> April 2009 (**Organizing Chairman**).
23. 5<sup>th</sup> Asia Pacific Conference on Catalysis (APCAT), Sapporo, Hokkaido, Japan, 18-23 July 2010 (**International Advisory Board**).
24. 16<sup>th</sup> Malaysian Chemical Congress, 12-14<sup>th</sup> October 2010, Kuala Lumpur, Malaysia (**Chairman for Physical and Theoretical Chemistry Session and Session Chairman**).

25. 2<sup>nd</sup> Seminar on Catalysis Science and Technology, Centre of Excellence for Catalysis Science and Technology, Faculty of Science, Universiti Putra Malaysia, 24<sup>th</sup> November 2010 (**Chairman Organizing Committee**).
26. International Conference on Humanities, Social Sciences and Science Technology 2011, University of Manchester, Manchester, United Kingdom, 27-28<sup>th</sup> June 2011. (**Panel**)
27. Young Catalysis Scientist Meeting, 20 March 2012, Universiti Putra Malaysia (**Chairman Organizing Committee**)
28. 15<sup>th</sup> Asian Chemical Congress (ACC), 19<sup>th</sup>-23<sup>rd</sup> August 2013, Singapore (**Chair** for Hydrogen Production and Storage Session)
29. International Conference on Chemical Engineering Science and Applications (CHESA 2013), 18-19<sup>th</sup> September 2013, Banda Aceh, Indonesia (**International Scientific Committee**).
30. Workshop on Advanced Materials and Nanotechnology 2013 (WAMN2013), 3-4<sup>th</sup> September 2013 (**Organizing Committee Member**).
31. 6<sup>th</sup> Asia Pacific Conference on Catalysis (APCAT), Taipei, Taiwan, 13-17<sup>th</sup> October 2013 (**International Advisory Board**).
32. International Symposium on EcoTopia Science 2013 (ISETS'13), Nagoya University, Nagoya, Japan 13-15<sup>th</sup> December 2013 (**International Scientific Committee**)
33. Symposium for Energy from Biomass and Waste, Universiti Putra Malaysia, 1<sup>st</sup> April 2014 (**Chairman**)
34. 3rd International Symposium on Green Chemistry: Renewable carbon and Eco-efficient processes (ISGC2015), May 3rd to 7th, 2015, La Rochelle, France (**International Scientific Committee member**).
35. 2<sup>nd</sup> Malaysian International Conference on Catalysis (iCAT2018), Bangi Resort Hotel, Malaysia (**Chairman Organizing Committee**)

#### 4. ADMINISTRATION

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1. **Vice Chancellor**, Universiti Malaysia Sabah (30 July 2019 – 29 July 2022)
2. **Head**, Catalysis Science and Technology Research Centre (PutraCAT), Universiti Putra Malaysia (Oct 2017 – July 2019)
3. Member of the Vetting Committee for Chemical Sciences (CS) Discipline Group, Academy Sciences of Malaysia (ASM) for 2017-now.
4. **Deputy Director**, Research Management Centre, Universiti Putra Malaysia (15<sup>th</sup> September 2014-14<sup>th</sup> September 2017)
5. **Head**, Catalysis Science and Technology Research Centre (PutraCAT) (15<sup>th</sup> Feb 2013-14<sup>th</sup> September 2015).
6. **Coordinator**, Centre of Excellence for Catalysis Science and Technology (1<sup>st</sup> September 2008 – 30<sup>th</sup> April 2012).
7. **College Master**, Pendeta Za'ba College, Universiti Putra Malaysia (1<sup>st</sup> May 2000 – 30<sup>th</sup> April 2003).
8. Member for Health Implication, Safety and Nanotechnology Environment Committee, National Nanotechnology Directorate, Malaysian Ministry of Science, Technology and Innovation (2011 – 2013).
9. Chairman for Organizing Committee for XIV Industrial Chemistry Seminar, UPM, Malaysia, 10<sup>th</sup> April 2010.
10. Member for Research Committee, Faculty of Science, UPM (1<sup>st</sup> Jan 2009 – 31<sup>st</sup> Dec 2010).
11. Member of Research Monitoring Panel, Faculty of Science, UPM (3<sup>rd</sup> May 2008 - 2<sup>nd</sup> May 2010).
12. Deputy Chairman for XIII Industrial Chemistry Seminar, Putrajaya, Malaysia, 11<sup>th</sup> April 2009.

13. Member of Committee for XII Industrial Chemistry Seminar, Putrajaya, Malaysia, 5<sup>th</sup> April 2008.
14. Secretary of the Curriculum Committee, Department of Chemistry, Universiti Putra Malaysia (Sept. 2007 – April 2009).
15. Chairman, Half-Day Seminar on Oxidation Catalysis, 22<sup>nd</sup> August 2007, Faculty of Science, Universiti Putra Malaysia.
16. National Organising Committee and Chairman for Physical and Theoretical Chemistry Session, 12<sup>th</sup> Asian Chemical Congress (12ACC), PWTC, Kuala Lumpur, 6-8<sup>th</sup> September 2007.
17. Member of Committee for Examination Questions and Answers Scheme, Faculty of Science, Universiti Putra Malaysia (September 2006 – 2008).
18. Chairman, International 19<sup>th</sup> Annual Malaysian Symposium on Analytical Chemistry, Malacca, 21-24<sup>th</sup> August 2006.
19. Chairman, 2<sup>nd</sup> Malaysian Catalysis Conference (MyCAT), Malacca, August, 21-24<sup>th</sup> August 2006.
20. Steering Committee, International Conference and Exhibition on Green Chemistry and Malaysian Chemical Congress (MCC 2006), 19-21<sup>st</sup> September 2006.
21. Chairman for the Committee for Management of Administration Integrity, Faculty of Science, Universiti Putra Malaysia (2004-2006).
22. Advisor of the Organizing Committee for an educational visit to Petronas Refinery Plant at Sg Udang, Melaka for CHM 3602 (Petroleum Refinery Processes), 9<sup>th</sup> August 2004.
23. Member of the Organizing Committee for Science Nite 2004, Faculty of Science and Environmental Studies, 6<sup>th</sup> August 2004.
24. Member of the Organizing Committee for Graduate Students Welcoming Reception, Faculty of Science and Environmental Studies, 24<sup>th</sup> July 2004.
25. Member of the Organizing Committee for the Deans and Directors Conference of National Public Universities, KLIA Pan Pacific Hotel, 21-22<sup>th</sup> July 2004.
26. Member of Evaluation Committee for Faculty of Science IRPA Research Project Monitoring (2003-present).
27. Steering Committee member for the Orientation Week, Universiti Putra Malaysia, 18<sup>th</sup>-24<sup>th</sup> May 2002.
28. Member of the Committee for Review Student's Academic Performance, Universiti Putra Malaysia (2001-present).
29. Chairman for the 1<sup>st</sup> Malaysian Conference on Catalysis, IDEAL Conference Hall, Universiti Putra Malaysia, 12<sup>th</sup>-13<sup>th</sup> November 2001.
30. Member of the Committee for planning the curriculum for Diploma in Petroleum Chemistry Programme (2001 - 2002)
31. Member of the Committee for planning the curriculum for Diploma in Chemical Technology Programme (2000 - 2002)
32. Steering Committee member for the Orientation Week, Universiti Putra Malaysia, 2<sup>nd</sup>-6<sup>th</sup> November 2000.
33. Coordinator for Chemistry Industrial Training, Department of Chemistry, Universiti Putra Malaysia (2001 - 2003)
34. Member of the Committee for Faculty Academic Excellent Prize Giving Day, 1999/2000 Session, Faculty of Science and Environmental Studies, Universiti Putra Malaysia, 19<sup>th</sup> July 2000.
35. Head of the Organizing Committee for an educational visit to PETROSAINS - The Discovery Centre for KIM 3602 (Petroleum Refining Processes), 25<sup>th</sup> June 2000.
36. Secretary for the 16th National Seminar on Natural Products, Mines Resort and Spa, Seri Kembangan, Selangor, 24<sup>th</sup>-25<sup>th</sup> October 2000.
37. UPM Steering Committee member for the Orientation Week, Universiti Putra Malaysia, 20<sup>th</sup>-27<sup>th</sup> May 2000.

38. Member of the Committee for Leadership and Organizational Workshop, Wira Waja Camp, Janda Baik, Pahang, 10<sup>th</sup>-13<sup>rd</sup> May 2000.
39. Secretary for the 7th Annual Seminar on Industrial Chemistry, Universiti Putra Malaysia, 23<sup>rd</sup> March 2000.
40. Coordinator for the X-Ray Diffractometer (XRD) Laboratory, Department of Chemistry, Universiti Putra Malaysia (1999 - 2019).
41. Organising Committee member for the 13<sup>th</sup> Annual Malaysian Symposium on Analytical Chemistry, Paradise Lagoon Hotel, Port Dickson, 5-6<sup>th</sup> September 2000.
42. Repertoire for Strategic Planning and Consultation Workshop to Achieve Higher Education Institute Award, Faculty of Science and Environmental Studies, Universiti Putra Malaysia, 7<sup>th</sup> October 1999.
43. Member of evaluation committee for the application of 1998 IRPA Research Grant at the university level (1999).
44. Head of the Organizing Committee of "Motivation Talk" for the Staffs of Department of Chemistry, Universiti Putra Malaysia, 27<sup>th</sup> September 1999.
45. Member of the Committee for Faculty Academic Excellent Prize Giving Day, 98/99 Session, Faculty of Science and Environmental Studies, Universiti Putra Malaysia, 4<sup>th</sup> August 1999.
46. Member of the Committee for Digital and Information Technology, Faculty of Science and Environmental Studies, Universiti Putra Malaysia (1999 -2002).
47. Head of the Organizing Committee for an educational visit to Esso Refinery Port Dickson, Negeri Sembilan for KIM 3602 (Petroleum Refining Process), 12<sup>th</sup> July 1999.
48. Acting College Master of Eleventh Residential College, Universiti Putra Malaysia (27-29<sup>th</sup> May 1999)
49. Fellow, Eleventh Residential College, Universiti Putra Malaysia (1999- 2000).
50. Head of the Organizing Committee for an educational visit to MTBE/Polypropylene Plant at Gebeng Petrochemical Area, Kuantan, Pahang for KIM 364/3603 (Petrochemicals) (1998)
51. Programme Leader for Heterogeneous Catalysis Research Group (1998 - present)
52. Member of the Organizing Committee for the 6<sup>th</sup> Annual Seminar on Industrial Chemistry, Universiti Putra Malaysia, 13<sup>th</sup> October 1998.
53. Member of the Committee for Management of Administration Integrity, Faculty of Science and Environmental Studies, Universiti Putra Malaysia (1998 -2004).
54. Member of the Technical Committee for the International Science Conference, Kuala Lumpur '98, Universiti Putra Malaysia (1998)
55. Head, Petroleum Chemistry Unit, Department of Chemistry, Universiti Putra Malaysia (1998 - present)
56. Assistant Coordinator for Industrial Training, Department of Chemistry, Universiti Putra Malaysia (1997 - 2001)
57. Member of the Curriculum Committee, Department of Chemistry, Universiti Putra Malaysia (1997 - 2007)
58. Member of the Committee for planning the curriculum for M.Sc. (Analytical Chemistry) Program (1997 - present)
59. Head of the Organizing Committee of "PowerPoint Course" for Department of Chemistry, Universiti Putra Malaysia (1997).
60. Academic advisor for the B.Sc (Hons) students of the Department of Chemistry, Universiti Pertanian Malaysia (1997 - present).
61. Chairperson of the Chemistry Department Seminar, Universiti Pertanian Malaysia (1994).
62. Member of the Committee for the 2<sup>nd</sup> Annual Seminar on Industrial Chemistry, Universiti Pertanian Malaysia (1994).

63. Member of the Committee for the 9<sup>th</sup> Annual National Seminar of Natural Products, Universiti Pertanian Malaysia (1992).

## **7. EXTENSION, CONSULTATION AND PUBLIC SERVICES**

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### ***A. Consultancy work***

1. Secondment to Matriculation Centre, Universiti Pertanian Malaysia (March - April 1994)
2. Appointed as Lecturer for the Science Awareness for Science Teachers Programme (2<sup>nd</sup> Cohort) organised by Malaysian Ministry of Education in collaboration with Faculty of Science and Environmental Studies UPM (14<sup>th</sup> March - 23<sup>rd</sup> May 1999).
3. Appointed as Lecturer for the Science Awareness for Science Teachers Programme (3<sup>rd</sup> Cohort) organised by Malaysian Ministry of Education in collaboration with Faculty of Science and Environmental Studies UPM (3<sup>rd</sup> July - 20<sup>th</sup> August 2000).
2. Appointed as Lecturer for the Science Awareness for Science Teachers Programme (4<sup>th</sup> Cohort) organised by Malaysian Ministry of Education in collaboration with Faculty of Science and Environmental Studies UPM (11<sup>th</sup> September - 28<sup>th</sup> October 2000).
5. Translation work of Chemicals Safety Labels and Procedures for Merck (M) Sdn Bhd (2000).
6. Consultant for the Malaysian Ministry of Education for planning the Additional Science curriculum (Petrochemicals section) for Secondary School (2000).
7. Consultant Report on Chemical Analysis of Kieserite Fertilizers from China and Indonesia for Dagangan Lestari Muhasabah, Kajang, Selangor (2002).
8. Conducted one-day course on Laboratory Safety for Dumex (Malaysia) Sdn Bhd, 17<sup>th</sup> April 2005.
9. Invited as Chairman for Organic Chemical Engineering Section in Regional Symposium on Chemical Engineering 2005 (RSCE 2005), Hanoi, Vietnam, 29 November - 2<sup>nd</sup> December 2005.
10. Invited as Chairman for Catalysis for Green Processes Section in International Conference and Exhibition on Green Chemistry and Malaysian Chemical Congress (MCC 2006), 19-21<sup>st</sup> September 2006.
11. Invited as Referee for application for membership of Malaysian Institute of Chemistry (2006, 2007 (2x), 2008, 2009, 2010, 2011, 2012)
12. Consultant Report on Chemical and Structural Determination of Material and Possibility to Synthesis MgSO<sub>4</sub> for IFD Resources Sdn Bhd (2007).
13. Invited Session Chair for the Industrial Chemistry Seminar (SKI XI), Putrajaya, 28<sup>th</sup> April 2007.
14. Appointed as Panelist for Evaluation of ScienceFund Application 2007.
15. Appointed as Evaluator Panelist for Second Stage Application for Research Scholarship National Science Fellowship by Ministry of Science, Technology and Innovation, Malaysia (2007).
16. Appointed as External Examiner for Degree and Diploma in Biotechnology programs at Technology Park Malaysia College for Academic Year of 2008-2009.
17. Appointed as Panelist for Evaluation of Research Grant under programme phytochemistry / phytochemistry and metabolomic, Institute of Bioscience, Universiti Putra Malaysia (August 2008- July 2011).
18. Appointed as Panelist for Evaluation of Research Grant Application for Universiti Malaysia Terengganu (2008).
19. Invited Session Chair and Judge of Poster Session for the 21<sup>st</sup> Annual Malaysian Symposium on Analytical Chemistry, Universiti Malaysia Sabah, 25-27<sup>th</sup> November 2008.
20. Invited Session Chair for the Industrial Chemistry Seminar (SKI XIII), Putrajaya, 11<sup>th</sup> April 2009.
21. Invited Session Chair for Second International Conference and Workshops on Basic and Applied Sciences, Johor Bahru, Malaysia, 2<sup>nd</sup>-4<sup>th</sup> June 2009.

22. Invited Session Chair for Fundamental Science Congress, Universiti Putra Malaysia, 18-19<sup>th</sup> June 2009.
23. Panel Academic Advisor for program Bachelor of Science (Applied Chemistry) at Faculty of Applied Sciences, Universiti Teknologi Mara (1 Nov 2009 – 31 Oct 2011).
24. Personal Referee of Assoc. Prof. Dr. Zahira Yaakob (National University of Malaysia) for promotion to a full Professor (2010).
25. Invited Session Chair for 3<sup>rd</sup> International Conference on Southeast Asian Natural Resources and Environmental Management, 3-5 August 2010, Kota Kinabalu, Sabah, Malaysia.
26. External Assessor to Assoc. Prof. Dr. Rusmidah Ali (Universiti Teknologi Malaysia) for promotion to a full Professor (2010).
27. External Assessor to Assoc. Prof. Dr. Abd. Rahim Bin Yaacob (Universiti Teknologi Malaysia) for promotion to a full Professor (2010).
28. Invited Session Chair (Plenary Lecture session) for 23<sup>rd</sup> Malaysian Symposium on Analytical Sciences (SKAM-23), 4-6<sup>th</sup> October 2010, Kuala Terengganu, Malaysia.
29. Appointed as Judge for Best Poster Presentation for 23<sup>rd</sup> Malaysian Symposium on Analytical Sciences (SKAM-23), 4-6<sup>th</sup> October 2010, Kuala Terengganu, Malaysia.
30. Invited Session Chair for International Conference on Environment 2010 (ICENV 2010), 13-15<sup>th</sup> December 2010, Penang, Malaysia.
31. Appointed as Panelist for Malaysian Academic Publication Council of Malaysian Ministry of Higher Education (2010-2012).
32. Invited Session Chair and Poster Judge, International Conference on Renewable Energy (ICRE 2011), 17<sup>th</sup>-21<sup>st</sup> January 2011, Jaipur, India.
33. Appointed as Personal Referee to Assoc. Prof. Dr. Siti Kartom Kamarudin (Universiti Kebangsaan Malaysia) for promotion to a full Professor (2011).
34. Invited as Referee for membership upgrading of Professor Mahiran Basri to Fellow of Malaysian Institute of Chemistry (2011).
35. Invited as Expert Panelist for International Conference on Humanities, Social Sciences and Science Technology 2011, University of Manchester, Manchester, United Kingdom, 27-28<sup>th</sup> June 2011.
36. Appointed as Panel for reviewing Application for Ministry of Higher Education (MOHE) Industrial PhD Financing (MyBrain15) (2011).
37. Appointed as Expert Panel for reviewing R,D & C Fund Application for Ministry of Science, Technology and Innovation (MOSTI) (2012-2015).
38. Appointed as Panel for reviewing Top Down National Nanotechnology Directorate Fund Application for Ministry of Science, Technology and Innovation (MOSTI) (2011).
39. Invited as Expert Panelist for International Conference on Humanities, Social Sciences and Science Technology 2012, Cardiff University, Cardiff, United Kingdom, 16<sup>th</sup> July 2012.
40. Panel Evaluating Member for Potential Centre of Excellence, Malaysian Ministry of Higher Education.
41. Invited Session Chair for International Conference on Chemical and Bioprocesses Engineering 2012 (ICCBPE 2012), 22-24<sup>th</sup> December 2012, Sabah, Malaysia.

### ***B. Chairman/Internal Examiner***

1. Chairman for the Viva Session (16<sup>th</sup> November 2000) and Internal Examiner of MSc Candidate - Sharizan Ahmad (Thesis: "Preparation and Characterization of Activated Carbon from Sago Waste").
2. Chairman for the Viva Session (22<sup>nd</sup> March 2001) and Internal Examiner of PhD Candidate – Christophe Wiart [Thesis: "Antimicrobial and Cytotoxic Compounds from *Scorodocarpus borneensis* (Olacaceae) and *Glycosmis calcicola* (Rutaceae)"].



3. Chairman for the Viva Session (20<sup>th</sup> November 2003) and Internal Examiner of MSc Candidate - Rosmiati (Thesis: "Chemical Constituent of Four Species of *Glycosmis* and their Biological Activities").
4. Internal Examiner for MSc Candidate (2004) of Universiti Putra Malaysia (UPM) – Mohd. Tajudin Mohd Ali (Thesis: Preparation of Betulinic Acid Derivatives).
5. Internal Examiner for MSc Candidate (2005) of Universiti Putra Malaysia (UPM) – Shaari Daud (Thesis: Chemical Constituents from *Annona muricata* and *Garcinia mangostana* and their Biological Activities).
6. Internal Examiner for MSc Candidate (2005) of Universiti Putra Malaysia (UPM) – Najihah Mohd. Hashim (Thesis: Chemical Constituents and Biological Activities of Four *Melicope* Species (Rutaceae)).
7. Internal Examiner for MSc Candidate (2005) of Universiti Putra Malaysia (UPM) – Sheikh Ahmad Izaddin Sheikh Mohd Ghazali (Thesis: Secondary Metabolites from *Mesua corneri* (LINN.) and *Garcinia mangostana* (LINN.) and Their Biological Activities.)
8. Internal Examiner for PhD Candidate (2005) of Universiti Putra Malaysia (UPM) – Neoh Bee Kiat (Thesis: Secondary Metabolites from *Mesua corneri* (LINN.) and *Garcinia mangostana* (LINN.) and Their Biological Activities.)
9. Internal Examiner for MSc Candidate (2006) of Universiti Putra Malaysia (UPM) – Lim Jew Kiat (Thesis: Preparation and Characterization of Carboxymethyl Sago waste (CMSW) and Formation of Cross-Linking CMSW Hydrogel Via Electron Beam Irradiation).
10. Internal Examiner for MSc Candidate (2006) of Universiti Putra Malaysia (UPM) - Mohd. Izham Bin Saiman (Thesis: Synthesis and Characterization of Antimony Oxide: New Route to Antimony Tetraoxide (Sb<sub>2</sub>O<sub>4</sub>)).
11. Internal Examiner for MSc Candidate (2007) of Universiti Putra Malaysia (UPM) – Noor Hayati Khamaruddin (Thesis: Enzymatic Synthesis and Characterization of Kojic Acid Derivatives).
12. Internal Examiner for MSc Candidate (2007) of Universiti Putra Malaysia (UPM) – Vivien Jong Yi Mian (Thesis: Chemical Constituents from *Calophyllum inophyllum* and *Cratoxylum arborescens* and their Biological Activities).
13. Internal Examiner for MSc Candidate (2007) of Universiti Putra Malaysia (UPM) – Liew Han-Fang (Thesis: Enzymatic Incorporation of Oleic Acid into Refined Bleached and Deodorised Palm Olein).
14. Internal Examiner for MSc Candidate (2007) of Universiti Putra Malaysia (UPM) – Ng Sook Han (Thesis: Chemical Constituents Biological Activity from *Garcinia parvifolia* and *Ploiarium alternifolium*).
15. Internal Examiner for MSc Candidate (2008) of Universiti Putra Malaysia (UPM) – Amy Yap Li Ching (Thesis: Phytochemical Studies and HPLC Profiling of Various Extraction Techniques of *Boesenbergia Pandurata*).
16. Internal Examiner for MSc Candidate (2008) of Universiti Putra Malaysia (UPM) – Shireen Shaharina Mohamed Shamaun (Thesis: Chemical Constituents and Biological Activity of *Artocarpus altilis* (Moraceae) and *Micromelum minutum* (Rutaceae)).
17. Internal Examiner for MSc Candidate (2008) of Universiti Putra Malaysia (UPM) – Lim Chyi Meei (Thesis: Alkaloidal Components from Piper species).
18. Internal Examiner for MSc Candidate (2008) of Universiti Putra Malaysia (UPM) – Rathidevi Nadarajan (Thesis: Selection of Polymorphic Structure in Dihydroxystearic Acid/Dhsa-Octyl Ester / Rbd Palm Kernel Olein and Medium Chain Triglycerides).
19. Internal Examiner for PhD Candidate (2009) of Universiti Putra Malaysia (UPM) – Umar Ibrahim Gaya (Thesis: Zinc Oxide-Catalysed Photo-Oxidative Mineralisation of Chlorophenols).
20. Internal Examiner for PhD Candidate (2009) of Universiti Putra Malaysia (UPM) –Lim Hong Ngee (Thesis: High Internal Phase Emulsion As A Reaction Medium for Fabrication of Brushite Crystals)

21. Internal Examiner for PhD Candidate (2010) of Universiti Putra Malaysia (UPM) – Mahnaz M. Abdi (Thesis: Polypyrrole-Chitosan Conducting Polymer Composite: Synthesis, Characterization and Its Potential Applications).
22. Internal Examiner for PhD Candidate (2010) of Universiti Putra Malaysia (UPM) – Mansour Ghaffari Moghaddam (Thesis: Response Surface Methodology (RSM) and Artificial Neural Network (ANN) Analysis for Prediction in the Enzymatic Acylation of Betulinic Acid using Anhydride).
23. Internal Examiner for MSc Candidate (2010) of Universiti Putra Malaysia (UPM) – Siti Aminah Binti Gunong @ Mohd Shah (Thesis: Synthesis and Optimization Study of Lipase-Catalyzed Synthesis of 3-O-(3',3'-Dimethylsuccinyl)-Betulinic Acid).
24. Internal Examiner for PhD Candidate (2010) of Universiti Putra Malaysia (UPM) – Adilas Mohamad Jaafar (Thesis: Synthesis of New Layered Organic-Inorganic Hybrid Materials and Their Application as Latex Stimulant).
25. Internal Examiner for PhD Candidate (2010) of Universiti Putra Malaysia (UPM) – Ho Soon Min (Thesis: Preparation and Characterization of Copper Tin Sulfide Thin Films from Aqueous Solution).
26. Internal Examiner for PhD (Chemical Engineering) Candidate (2010) of Universiti Putra Malaysia (UPM) – Azhari Muhammad Syam (Thesis: Continuous of Jatropha Biodiesel Production by using Oscillatory Flow Biodiesel Reactor).
27. Internal Examiner for MSc Candidate (2012) of Universiti Putra Malaysia (UPM) – Munirah Binti Ramli (Thesis: Synthesis, Characterization and Toxicity Study of Layered Hydroxides Containing Intercalated Salicylate for Nanodelivery of an Anti-inflammatory Agent).
28. Internal Examiner for MSc Candidate (2012) of Universiti Putra Malaysia (UPM) – Siti Nooraishah Binti Mohd Nordin (Thesis: Synthesis Zinc Oxide Nanoparticles by Matrix Assisted Method and Its Photocatalytic Activity).
29. Internal Examiner for PhD Candidate (2014) of Universiti Putra Malaysia (UPM) – Saifullah (Thesis: Development of Nanodelivery Systems for Anti-Tuberculosis Drugs using Metal Hydroxides Nanolayered Hosts)
30. Internal Examiner for PhD Candidate (2017) of Universiti Putra Malaysia (UPM)- Aminu Musa (Thesis: Fabrication of Copper Nanoparticles Supported By Nanocrystalline Cellulose And Gelatin And Their Effects On Catalytic And Antibacterial Properties)
31. Chairman (representative of Dean of Graduate School) for the Viva Session (2017) and Internal Examiner of PhD Candidate – Hannatu Abubakar Sani [Thesis: Preparation and Characterization of Zinc Oxide Nanoparticle in Clay Minerals for the Removal of Heavy Metal Ions].
32. Chairman (representative of Dean of Graduate School) for the Viva Session (2017) and Internal Examiner of PhD Candidate – Chew Weiyun [Thesis: Biomonitoring, Distribution and Risk Assessment of Heavy Metals and Polycyclic Aromatic Hydrocarbons (PAHs) in *Asystasia Gangetica* and Its Habitat Topsoil from Peninsular Malaysia].
33. Internal Examiner for PhD Candidate (2019) of Universiti Putra Malaysia (UPM) – Siti Zulfa Binti Zaidon (Thesis: Development and Application of UHPLC-MS/MS Method for Pesticides Analysis in Soil and Water and Their Associated Dermal Health Risk to Paddy Farmers)
34. Internal Examiner for PhD Candidate (2020) of Universiti Putra Malaysia (UPM) – Lim Pei Cee [Thesis: Phytochemical Constituents and Biological Activities of *Clausena Excavata* Burm F. (Rutaceae), *Micromelum Minutum* (G. Frost.) Wight and Am and *Melicope Latifolia* (DC) T.G. Hartley].
35. Internal Examiner for PhD Candidate (2019) of Universiti Putra Malaysia (UPM) – Hamra Assyaima Binti Abdul Bashid (Thesis: Flexible Supercapacitor Based on Graphene/Polypyrrole Electroactive Materials)

#### ***D. Participation in professional bodies***

1. Professional Technologist (2021), Malaysia Board of Technologist (MBOT)
2. President (Protem), Malaysian Catalysis Society (2016 - now)
3. Titular Member of Division I, International Union for Pure and Applied Chemistry (IUPAC) (Division Physical and Biophysical Chemistry) (2014-15).
4. Fellow (FASc), Academy Science of Malaysia (2015 – now)
5. Member, Malaysian Society for Engineering & Technology (2010 – now)
6. Fellow (FMIC), Malaysian Institute of Chemistry (November 2009 - now).
7. Fellow (FRSC), Royal Society of Chemistry, United Kingdom (September 2008 - now).
8. Associate Member (AMIChemE), Institution of Chemical Engineers (IChemE), United Kingdom (2010 – now).
9. Executive Board Member of the Malaysian Analytical Sciences Association (ANALIS) (2006-2009, 2010 - 2016).
10. Council Member, Asia Pacific Association of Catalysis Society (APACS) (2003 – now)
11. Associate Member, Malaysian Institute of Chemistry (AMIC) (2004-2009).
12. Honorary Treasurer, Academic Staff Association, Universiti Putra Malaysia. (2004).
13. Executive Council, Academic Staff Association, Universiti Putra Malaysia. (2005).
14. Member of the Malaysian Analytical Sciences Association (2000-present).
15. Member of the Malaysian Natural Products Society (1998 - present).
16. Member of the Universiti Putra Malaysia, Academic Staff Association. (1998 - present)
17. Elected Chartered Chemist and Professional Member (CCChem., MRSC), Royal Society of Chemistry, U.K. (1997 - 2008)
18. Member of the Board of Director, Youth Guidance Centre, Serdang, Selangor (1998 - 2010)
19. Advisor, Malaysian School of Manchester Director Board, Manchester, United Kingdom (1997)
20. Elected Graduate (GRSC), Royal Society of Chemistry, U.K. (1996)
21. Chairman, Malaysian School of Manchester Director Board, Manchester, United Kingdom (1996)
22. Head, Education Bureau, Malaysian Community of Cheetham Hill (MCCH), Manchester, United Kingdom (1996)
23. Assistant Head, Education Bureau, Malaysian Community of Cheetham Hill (MCCH), Manchester, United Kingdom (1995)
24. Advisor, Out-Campus Student Union, Universiti Pertanian Malaysia (1994)

#### ***E. Appointments based on expertise***

##### ***External Examiner***

1. PhD Candidate (2021) of Universiti Teknologi PETRONAS – Rab Nawaz (Thesis: Photodegradation of Phenolic Compounds in Treated POME Using Mn Modified Colored TiO<sub>2</sub> Photocatalyst Under Visible Light Illumination)
2. PhD Candidate (2020) of Universiti Malaysia Pahang – Intan Shafinaz Binti Abd Manaf (Thesis: Transesterification via Different Intensification Methods Using Waste Feedstocks and Waste Heterogeneous Catalysts).
3. MSc Candidate (2020) of Universiti Malaysia Pahang - Mahadi Bin Bahari (Thesis: Ethanol Dry-Reforming over Lanthanide-Promoted Ni/Al<sub>2</sub>O<sub>3</sub> Catalysts for Syngas Production).
4. PhD Candidate (2019) of Universiti Teknologi Malaysia - Mohd Hayrie Bin Mohd Hatta (Thesis: Highly Active Porous Crystalline Carbon Nitride Materials for Photocatalytic Degradation of Phenol).

5. PhD Candidate (2019) of Universiti Malaysia Pahang - Cheng Yoke Wang (Thesis: Syngas Production from Valorisation of Palm Oil Mill Effluent (POME) Via Steam Reforming over  $\text{LaNiO}_3$  and  $\text{LaCoO}_3$  Catalysts).
6. PhD Candidate (2019) of Universiti Malaysia Pahang - Chong Chi Cheng (Thesis: Synthesis and Catalytic Evaluation of Ni Supported on Dendric Fibrous Type SBA-15 (DFSBA-15) For  $\text{CO}_2$  Reforming of  $\text{CH}_4$ ).
7. PhD Candidate (2019) of Universiti Teknologi Malaysia - Nurul Hidayah Binti Abdullah (Thesis: Synthesis and Characterization of Magnetic Iron Oxide Nanocomposites and Bionanocomposites for Removal of Cation Dyes).
8. MPhil. Candidate (2019) of Universiti Teknologi Malaysia - Ahmad Aiman bin Azmi (Thesis: Synthesis and Characterization of Mesoporous Ceria Nanoparticles for Carbon Dioxide Capture)
9. PhD Candidate (2019) of Universiti Teknologi Malaysia - Rasidah Binti Razali (Thesis: Hydrophobic Titania-Polystyrene Textile-Based Catalyst for -based Catalysts for Oxidation Phase Boundary Catalysis System).
10. PhD Candidate (2019) of Universiti Teknologi Malaysia - Muhamed Yusuf Bin Shahul Hamid (Thesis: Synthesis of Vanadium-Nickel Supported on Fibrous Silica Catalyst for Carbon Dioxide Methanation)
11. PhD Candidate (2019) of Universiti Teknologi Malaysia - Wan Khaiman Azira Binti Wan Mat Khalir (Thesis: Fabrication of Silver Nanoparticles Loaded into Natural Fiber Using Plant Extract for Antibacterial and Dye Catalytic Applications)
12. MSc Candidate (2019) of Universiti Malaysia Sarawak - Racheal Anak James (Thesis: Phytochemicals Studies of *Sonneratia Alba* and Pharmacophore Modelling Approach Towards Antibacterial and Antioxidant Properties)
13. MSc Candidate (2019) of Universiti Malaysia Pahang - Normasuha Binti Abdullah (Thesis: Utilization of Palm Fuel Ash (Pofa) as Silica Source of Ni/SBA-15 for  $\text{CO}_2$  Reforming of  $\text{CH}_4$ ).
14. PhD Candidate (2019) of Universiti Tenaga Malaysia (UNITEN) - Salman Bello Abdullahi (Thesis: Carbon Emission Pinch Analysis and Pyrolysis of Biomass with Plastic Wastes for Sustainable Development in Nigeria).
15. MPhil. Candidate (2019) of Universiti Teknologi Malaysia - Wan Nur Atika Binti Wan Ibrahim (Thesis: Degredation of Perfluorinated Sulfonic Acid Membrane in Vanadium Redox Flow Battery)
16. PhD Candidate (2018) of Universiti Teknologi PETRONAS - Syed Awais Ali Shah Bokhari (Thesis: Rubber seed oil based methyl ester synthesis via hydrothermic cavitation)
17. PhD Candidate (2018) of Universiti Malaysia Pahang - Mohammed Anwar Hussain (Thesis: Syngas Production from Methane Dry Reforming over  $\text{CeO}_2$  Promoted  $\text{Ni/CaFe}_2\text{O}_4$  Catalysts).
18. MSc Candidate (2018) of Universiti Malaysia Pahang - Neshabran a/l Ramachandran (Thesis: Characterization and Utilization of Gypsum-Based Compound from Titanium Oxide Pigment Production as Catalysts in Waste Cooking Oil Transesterification).
19. MPhil. Candidate (2018) of Universiti Teknologi Malaysia - Nadzidah Binti Yusof (Thesis: Synthesis and Characterization of Cobalt-loaded on Fibrous Silica KCC-1 for Catalytic Methanation of Carbon Monoxide).
20. MSc. Candidate (2018) of Universiti Teknologi MARA - Nur Raihan Bte Zaharudin (Thesis: Immobilized Titanium Dioxide-Polyethylene Glycol by Double Side Adhesive Tape for Photocatalytic Degradation of Methylene Blue).
21. PhD Candidate (2017) of Universiti Kebangsaan Malaysia – Yasamin Kadhim Hasan (Thesis: Synthesis of Novel Coumarin Derivatives Complemented with Their Respective Antioxidant and Anti-Microbial Activities)
22. MPhil. Candidate (2017) of University of Malaya - Cheryl Low Yi Lian (Thesis: Catalytic Upgrading of Bio Oil for Lubricant Base Oil Production)

23. PhD Candidate (2017) of Universiti Teknologi Malaysia - Mohamad Haqzim Bin Ayob (Thesis: Synthesis and Characterization of Cobalt-based Catalysts for Oxidation, Photooxidation and Photodegradation Reactions)
24. MSc Candidate (2017) of Universiti Malaysia Sabah – Angelina Cheng Ying Fang (Thesis: Isolation and Characterization of Anticancer Compounds from Acanthaceae and Verbenacea Medicinal Plants)
25. PhD Candidate (2017) of Universiti Sains Malaysia – Chng Lee Muei (Thesis: The Effect of Yeast and Fermentation Process in Bioethanol Production from *Scenedesmus dimorphus* Microalga Biomass)
26. Master of Chemical Engineering (2017) of Universiti Malaysia Sabah – Ermieza Sinin (Thesis: Synthesis, Characterization and Reactivity of Carbon-based Bifunctional Catalysts).
27. PhD Candidate (2017) of Universiti Kebangsaan Malaysia - Mark Lee Wun Fui (Thesis: The Structure and Electronic Properties of Ruthenium Complexes with 1-Benzoyl-3-(pyridine-2-yl)-1H-pyrazole as Potential Photosensitizer)
28. PhD Candidate (2017) of Universiti Kebangsaan Malaysia - Liew Kin Hong @ Lew Kin Hong (Thesis: Pembangunan Penyokong Pepejal Berlogam Menggunakan Kaedah Ikatan Taut Silang untuk Aplikasi Pemangkinan)
29. PhD Candidate (2017) of Universiti Malaysia Pahang - Mashitah Binti Mad Salim (Thesis: Cetyltrimethyl Ammonium Bromide- and Silver Modified NaY Zeolites for Antibacterial Applications)
30. PhD Candidate (2017) of Universiti Malaysia Pahang - Osazuwa Osarieme Uyi (Thesis: Synthesis, Characterization, Kinetics and Longevity Study of Catalytic Dry Reforming of Methane over Samarium-Cobalt- Trioxide Perovskite Catalyst)
31. MSc Candidate (2017) of Universiti Malaysia Sarawak – Nurul Afina Binti Sumed (Thesis: Fatty Acids Profile of Marine Fishes from Exclusive Economic Zone (EEZ) of Sarawak, Malaysia).
32. PhD Candidate (2017) of Universiti Sains Malaysia – Nur Nazrina Binti Ahmad Sabri (Thesis: Photocatalytic Removal of 2,4-D and Quinclorac Herbicides under UVis, Total Visible and Solar Light irradiations by an Immobilized System of Carbon Coated, Nitrogen Doped and PVC Sensitized TiO<sub>2</sub>).
33. PhD Candidate (2017) of Universiti Teknologi Malaysia - Nor Suraini Sani (Thesis: Synthesis and Characterization of Hydroxypatite Encapsulated Silica Aerogel and Its Potential as an Alternative Biomaterial).
34. MSc Candidate (2017) of Universiti Malaysia Sabah – Quek Kye Shane (Thesis: Optimization of Oil Palm Empty Fruit Bunch-Derived Activated Carbon-Grafted Zip-8 for Post Combustion CO<sub>2</sub> Capture).
35. PhD Candidate (2016) of Universiti Malaysia Pahang – Ayodele Bamidele Victor (Thesis: Kinetics, Mechanistic and Optimization Studies of Catalytic Methane Dry Reforming over Light Rare-Earth Oxides Supported Co Catalysts).
36. PhD Candidate (2016) of Universiti Teknologi Malaysia - Siti Aishah Binti Mohd Hanim (Thesis: Amine-Functionalized Silver-Exchanged Zeolite NAY as Antibacterial Agent).
37. PhD Candidate (2016) of Universiti Teknologi Malaysia - Noor Azhana Binti Ghazi (Thesis: Characterization of Nanozeolite NaY and Its Potential as an alternative adjuvant Therapy for Cancer).
38. Master of Engineering (2016) of Universiti Malaysia Pahang - Mahadi Bin Bahari (Thesis: Ethanol Dry-Reforming over Lanthanide-Promoted Ni/Al<sub>2</sub>O<sub>3</sub> Catalysts for Syngas Production)
39. MSc Candidate (2016) of Universiti Sains Malaysia - Chow Jack Hao (Thesis: Bamboo Leaf Ash as Green and Sustainable Source of Amorphous Silica for the Synthesis of Zeolite Catalyst Materials for Cyanoethylation of Alcohols)

40. PhD Candidate (2016) of Universiti Sains Malaysia – Mohd Hizami Bin Mohd Yusoff (Thesis: Synthesis and Characterization of Sulfated Zirconia Supported on SBA-15 for selective glycerol esterification with Palmitic acid to monopalmitin).
41. PhD Candidate (2016) of Universiti Teknologi Malaysia - Siti Munirah Binti Sidik (Thesis: Hydrogen Production from Carbon Dioxide Reforming of Methane over Nickel supported on Mesostructured Silica Nanoparticles).
42. MSc Candidate (2016) of Universiti Teknologi Malaysia - Norsahida Bt Azri (Thesis: Copper-Nickel-Titania Supported on Polyvinyl Chloride as Photocatalyst for Photocatalytic Degradation of Polybrominated Diphenyl Ether Compounds in Aqueous Phase).
43. PhD Candidate (2016) of Universiti Kebangsaan Malaysia - Alinda Samsuri (Thesis: Penghasilan Hidrogen daripada Tindak Balas Pembelahan Molekul Air Menggunakan Mangkin Berasaskan Molibdenum)
44. MSc Candidate (2016) of Universiti Kebangsaan Malaysia - Jamilah Binti Salikin (thesis: Determination of Macrolide Antibiotic in Chicken by Using Liquid Chromatography-Electrospray Mass Spectrometry).
45. MSc Candidate (2016) of University of Malaya - Sharafadeen Gbadamasi (Thesis: Enhanced metal supported catalyst for hydrodeoxygenation of bio-oil model compounds to fuel grade hydrocarbons)
46. MSc Candidate (2015) of Universiti Teknologi Malaysia - Shamsuddin Bin Chik Zi (Thesis: Synthesis of Mesoporous Titania by Photodegradation of Surfactant Template and Its Application in Photocatalytic Oxidation of Styrene).
47. PhD Candidate (2015) of Universiti Kebangsaan Malaysia - Chin Siew Xian (Thesis: Acid Hydrolysis of Pretreated Oil Palm Empty Fruit Bunch Fibre to Produce Fine Chemicals)
48. PhD Candidate (2015) of Universiti Kebangsaan Malaysia - Fan Suet Pin (Thesis: Optimization of Mannose Extraction from Deproteinized Palm Kernel Cake Via Acid Hydrolysis).
49. PhD Candidate (2015) of Universiti Teknologi Malaysia - Afrouz Baharvand (Thesis: Synthesis and Application of Hollow Titania Microspheres Containing Silver and Gold Nanoparticles in the Photodegradation of Pesticides).
50. PhD Candidate (2015) of Universiti Malaysia Pahang – Nugroho Dewayanto (Thesis: Utilization of Decanter Cake from Palm oil Milling Plant as New Substrate for the Production of Bio-Oil through Catalytic Vacuum Pyrolysis).
51. PhD Candidate (2015) of Universiti Sains Malaysia – Shuit Siew Hoong (Thesis: Studies on the Sulfonated Carbon Nanotubes Catalysts and Membrane Reactor for Biodiesel Production).
52. PhD Candidate (2015) of Universiti Teknologi Malaysia - Susilawati Bt Toemen (Thesis: Catalytic Methanation of Cerium, Strontium, Nickel and Tin Oxides Based Catalysts for Carbon Dioxide Treatment: Preparation, Characterization and Mechanism).
53. MSc Candidate (2014) of Universiti Malaysia Sarawak – Firus Musfirah Binti Poli (Thesis: Chemical Composition of *Artocarpus odoratissimus*, *Canarium odontophyllum* and *Litsea garciae* Fruits from Sarawak)
54. PhD Candidate (2014) of Universiti Malaysia Pahang – Noor Hindryawati (Thesis: Preparation Of Methyl Esters Via Transesterification Using oils And Catalysis From Waste Sources)
55. PhD Candidate (2014) of University of Canterbury, New Zealand – Faridah Bt. Abu Bakar (Thesis: Towards new generation of sustainable catalyst: Study of shape and size controlled TiO<sub>2</sub> nanoparticles in photocatalytic degradation of industrial dye)
56. Master of Engineering (Chemical) Candidate (2014) of Universiti Malaysia Pahang - Lee Hua Chyn (Thesis: Synthesis and Characterization of Cement Clinker-Supported Nickel Catalyst for Glycerol Dry Reforming)
57. MSc (Chemical Engineering) Candidate (2014) of Universiti Teknologi Petronas – Norizan Ali (Thesis: Production of Bio-Oil from Oil Palm Waste via Pyrolysis in a Fluidized Bed Reactor).

58. PhD Candidate (2014) of Universiti Teknologi Malaysia – Mohammad Reza Sazegar (Thesis: Modified Mesostructure Siliceous Nanoparticles (MSN) Catalysts for Cumene Conversion).
59. PhD Candidate (2014) of Universiti Sains Malaysia – Jimmy Nelson A/L Appaturi (Thesis: MCM-41 Imidazolium Halide Catalyst for the Synthesis of Cyclic Carbonates: Its Preparation, Characterization and Mechanistic Study on the Reaction Between Epoxide and CO<sub>2</sub>).
60. PhD Candidate (2014) of Universiti Sains Malaysia – Lelifajri (Thesis: Immobilized Degussa P-25 TiO<sub>2</sub> Single Layer and P-25 TiO<sub>2</sub>-Activated Carbon Bilayer System for Photocatalytic Removal of 2,4-Dichlorophenoxyacetic Acid Herbicide in Aqueous Solutions)
61. PhD Candidate (2013) of Universiti Sains Malaysia – Muhammad Ayoub (Thesis: Synthesis and Characterization of Lithium-Modified Mesoporous Catalyst for Solvent-Free Selective Oligomerization of Glycerol to Diglycerol).
62. PhD Candidate (2013) of Universiti Teknologi Malaysia – Herma Dina Binti Setiabudi (Thesis: Synthesis of Iridium/Platinum-HZSM5 Catalyst for Isomerization of *n*-Pentane).
63. PhD Candidate (2013) of National University of Malaysia – Nor Asikin Binti Mohamad Nordin (Thesis: Development of Perchloric Acid Solid Catalyst for Reforming of Estolida based on Oleic Acid).
64. MSc (Petroleum Engineering) Candidate (2013) of Universiti Teknologi Petronas – Siti Qurratu'Aini Bte Mahat (Thesis: Investigation on 1-Butyl-3-Methylimidazolium Perchlorate Ionic Liquid for Enhancing Heavy oil Recovery).
65. PhD Candidate (2013) of Universiti Sains Malaysia – Muataz Shakir Khayoon (Thesis: Synthesis, Characterization and Activity of Glycerol Acetylation, Transesterification and Acetalization Catalysts for the Production of Oxygenated Fuel Additives).
66. PhD Candidate (2013) of Universiti Sains Malaysia – Sumiyah Binti Sabar (Thesis: Immobilized TiO<sub>2</sub>/Chitosan Layer-By-Layer System Modified with Reactive Red-4 Dye for the Photocatalytic Degradation of Phenol).
67. PhD Candidate (2012) of Universiti Sains Malaysia – Zulcra Helwani (Thesis: Biodiesel Production using Double Layered Hydroxide Heterogeneous Catalysts).
68. MSc Candidate (2012) of Universiti Teknologi Malaysia – Syaiful Akhmal Bin Saadon (Thesis: Modified Zinc Plate as an Intergrated Chemical System for Dyes Removal).
69. MSc (Chemical Engineering) Candidate (2012) of Universiti Teknologi Petronas – Nor Azam Bin Endut (Thesis: Synthesis, Characterization and Carbon Dioxide Adsorption Desorption of Solvothermolysed Dolomite).
70. MSc Candidate (2012) of National University of Malaysia – Ganthimathi A/P Subramaniam (Thesis: Method Development for Determination of Total, Organic and Inorganic Arsenic in Four Different Species of Mackerel).
71. PhD Candidate (2012) of University of Madras, India – Liji Sobhana (Thesis: Preparation and Characterization of Gold Nanoparticle Supported Nano-Hydroxyapatite and Cadmium Sulphide Quantum Dots).
72. PhD Candidate (2012) of Universiti Sains Malaysia – Jeyashelly A/P Andas (Thesis: Transition Metal Incorporated Silica Catalysts for the Conversion of Phenolic Compounds into Enviromentally Friendly Products).
73. MSc Candidate (2012) of Universiti Teknologi Malaysia – M Jasmin Fathi Bin Jasni (Thesis: Catalytic Oxidative Desulfurization of Diesel Fuel Utilizing Alumina Supported Manganese Oxide Based Catalyst)
74. PhD Candidate (2012) of Universiti Teknologi Malaysia – Nurun Najwa Binti Ruslan (Thesis: Study the Interaction of Hydrogen and Molybdenum Oxide Zirconia Catalyst for *n*-Heptane Isomerization).

75. PhD Candidate (2012) of Universiti Teknologi Malaysia – Fawzi Mohamed A Elfagaih (Thesis: Catalytic Performance and Optimization of Hydrodesulfurization and Naphtha Reforming for Clean Fuels Production).
76. M.Eng (Electrical Engineering) Candidate (2012) of Universiti Tun Hussein Onn Malaysia – Nor Rashidah Bte Md Juremi (Thesis: Fabrication of Periodic Nanoparticle Arrays Using Nanosphere Lithography Technique and Thin Film Gold as Electrically Enhanced Catalysts).
77. PhD Candidate (2011) of National University of Malaysia – Pua Fei Ling @ Grace Pua (Thesis: Characterization of Liquid Fuel Derived from Lignin With and Without Catalyst).
78. MSc Candidate (2011) of National University of Malaysia – Fan Suet Pin (Thesis: Characterization of Liquid Products from Solvolysis Liquefaction of Empty Fruit Bunches (EFB) in Various Solvent).
79. MSc Candidate (2011) of National University of Malaysia – Ainol Hayah Binti Ahmad Nadzri (Thesis: Au, Pd and Au-Pd Based Heterogeneous Catalysts for Glycerol Oxidation Reaction).
80. MSc Candidate (2011) of National University of Malaysia – Aznira Binti Alias (Thesis: Development of Ruthenium Based Heterogeneous Catalyst for Glycerol Hydrogenolysis Reaction to Glycol).
81. MSc (Chemical Engineering) Candidate (2011) of Universiti Teknologi Petronas – Siti Eda Eliana Binti Misi (Thesis: Development of Zeolite Beta Supported Fe-Ni Catalysts for Steam Gasification of Palm Kernel Shell for Hydrogen Production).
82. MSc Candidate (2011) of Universiti Teknologi Malaysia – Juan Bin Matmin (Thesis: Preparation of Silica-Based Porous Materials from Starch-Derived Low Molecular Weight Organic Gelator Template).
83. MEng. (Chemical) Candidate (2011) of Universiti Teknologi Malaysia – Muhammad Arif bin Ab. Aziz (Thesis: Preparation of Platinum and Nanosized Nickel Promoted HY Zeolite for Isomerization of *n*-Pentane).
84. PhD (Chemical Engineering) Candidate (2011) of Universiti Sains Malaysia – Babak Salamatinia (Thesis: Intensified Biodiesel Production using Ultrasonic-Assisted Heterogeneous Catalytic Process and Product Quality Evaluation).
85. MSc (Chemical Engineering) Candidate (2010) of Universiti Sains Malaysia – Fan Mun Sing (Thesis: Catalyst Development for Reforming of Methane using CO<sub>2</sub>).
86. MSc Candidate (2010) National University of Malaysia – Noraziah Nordin (Thesis: Inhibitory Effect of Extracts and Compounds from Selected Annonaceae Species on Platelet-Activating Factor (PAF) Receptor Binding *In Vitro*).
87. PhD Candidate (2010) of National University of Malaysia – Ibrahim Naji Hassan (Thesis: Lanthanum Chloride Assisted Esterification Reactions of Acetic Acid and Aroylthiourea Carboxylic Acids).
88. MSc Candidate (2010) of Universiti Teknologi Malaysia – Susilawati Bt Toemen (Thesis: Nickel Oxide Doped Noble Metals Supported Catalysts for Carbon Dioxide Methanation and Desulfurization Reactions).
89. MSc (Chemical Engineering) Candidate (2009) of Universiti Teknologi Malaysia – Nurul Aini Mohamed Razali (Thesis: Novel Synthesis of Platinum/Electrogenerated Zinc-HZSM-5 for Isomerization of *n*-Pentane).
90. MSc Candidate (2009) of Universiti Teknologi Malaysia – Chin Tian Kae (Thesis: Oxidative Coupling of Ortho-Aminophenol over Mesoporous Silica Containing Copper (II) Diethylamino-substituted Salen Complex).
91. MSc Candidate (2009) of National University of Malaysia – Zarina Binti Edris (Thesis: A Study on Hydrotalsite Based Heterogeneous Catalysts for Etoxylation of Fatty Acids).
92. PhD Candidate (2009) of Universiti Teknologi Malaysia – Fitri Hayati Darmalis (Thesis: Modified Manganese Oxide Octahedral Molecular Sieves for Oxidation and Consecutive Oxidation-Acid Reaction)



93. MSc Candidate (2009) of Universiti Teknologi Malaysia – Malik Musthofa (Thesis: *n*-Pentane Originated Protonic Acid Sites Over Zinc Promoted HZSM-5).
94. MSc Candidate (2008) of National University of Malaysia – Farinaa Binti Md. Jamil (Thesis: Development of Catalysts System based on Mo-V Metal for Propane Ammoxidation Reaction).
95. MSc Candidate (2008) of National University of Malaysia – Mailina Binti Jamil (Thesis: Study on Essential Oils and Methanolic Extracts of Selected Zingiberaceae Species as Potential Topical Antiinflammatory Agents).
96. PhD Candidate (2007) of National University of Malaysia – Juan Joon Ching (Thesis: Development of New Environmental Friendly Solid Acid Catalysts Based on 12-Tungstophosphoric Acid and Zirconium Sulfate for Esterification of Fatty Acid).
97. MSc (Chemical Engineering) Candidate (2007) of National University of Malaysia – Mohd. Adib Bin Ibrahim (Thesis: Production of Hydrogen from Methanol using Cu-Zn-Al/ZSM-5 Catalysts).
98. MSc (Chemical Engineering) Candidate (2006) of National University of Malaysia - Fadhli Hadana Rahman (Thesis: Sintesis Takorganik Kompleks Tris(Ditolena) Tungsten Sebagai Fotomangkin Bagi Fotolisis Air)
99. MSc Candidate (2006) of National University of Malaysia - Chan Kam Seng (Thesis: Kandungan Kimia Minyak Pati Zingiberaceae)
100. PhD (Chemical Engineering) Candidate (2006) of Universiti Teknologi Malaysia – Istadi (Thesis: Catalytic Conversion of Methane and Carbon Dioxide In Conventional Fixed Bed and Dielectric Barrier Discharge Plasma Reactors).
101. MSc Candidate (2005) of Universiti Teknologi Malaysia – Marzita Bt. Abd. Mazak (Thesis: Modified Zeolite Beta as Catalysts in Friedel-Crafts Alkylation of Resorcinol).
102. MSc Candidate (2005) of National University of Malaysia - Raja Saadiah Binti Raja Shariff (Thesis: Modifikasi ke atas Mangkin ITQ-6 untuk tindakbalas pengesteran asid laurik dengan metanol)
103. PhD Candidate (2005) of Universiti Teknologi Malaysia – Didik Prasetyoko (Thesis: Bifunctional Oxidative and Acidic Catalysts for One Pot Synthesis of 1,2-Octanediol from 1-Octene).
104. MSc Candidate (2004) of Universiti Malaya – Qureshiah Bt Abdul Basher (Thesis: Thermokinetic Structure-Activity Investigation of the Phase Transformations of Molybdenum Oxide Based Selective Oxidation Catalysts).
105. MPhil Candidate (2004) of Universiti Malaya – Chow Mee Ling (Thesis: Hydrogenation of Fatty Esters to Higher Added Value of Oleochemicals).
106. MPhil Candidate (2004) of Universiti Malaya – Rubia Idris (Thesis: Synthesis and Characterisation of Multimetallic Oxide Catalysts for Selective Oxidation of Propane to Acrylic Acid: Effect of Preparation Variable and Activation Procedure).
107. MSc Candidate (2004) of National University of Malaysia (UKM) – Lim Hong Ngee (Thesis: A Study on Nafion Resin Catalysts) (Viva on 16 April 2004)
108. PhD (Chemical Engineering) Candidate (2002) of National University of Malaysia (UKM) – Ye Lwin (Thesis: An Investigation of Cu-Al Hydrotalcite Derived Mixed Oxides for Hydrogen Production by Steam-Methanol Reforming).
109. MSc Candidate (2002) of Universiti Teknologi Malaysia (UTM) – Mohd. Haizal Mohd. Husin (Viva on 23<sup>rd</sup> March 2002) (Thesis: Kajian Elektromangkin Campuran Platinum dalam Elektrod Sel Bahan Membran Penukar Proton: Penyediaan, Pengujian dan Pencirian).
110. MSc Candidate (2002) of National University of Malaysia (UKM) – Tan Chow Khim (Thesis: Synthesis & Characterization of Rh Supported on  $\gamma$ -Al<sub>2</sub>O<sub>3</sub> using Surfactant.)
111. MSc Candidate (2000) of Universiti Teknologi Malaysia (UTM) - Mohd. Tahir Bin Ahmad (Viva on 12<sup>th</sup> July 2000)
112. MSc (Chemical Engineering) Candidate (1999) of National University of Malaysia (UKM) - Monsura Begum (Thesis: Cu-Al Catalyst Preparation and Characterization Studies for Steam-Methanol Reforming Reaction)

113. MSc Candidate (1999) of Universiti Teknologi Malaysia (UTM) - Adilah Bt Abdul Aziz (Viva on 28<sup>th</sup> June 1999) (Thesis: Pesticides Degradation by using Titanium Dioxide Photocatalysts).

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1. Regional Managing Editor (Asia Pacific), Bulletin of Chemical Reaction Engineering and Catalysis (2012 – present) (Elsevier/Scopus)
2. Editorial Board Member, Catalysis Survey from Asia (2008-now) (Impact Factor 2018: 3.107) (Springer)
3. Editorial Board Member, Vietnam Journal of Catalysis and Adsorption (2018-now)
4. Editorial Board Member, Malaysian Journal of Catalysis (2016-now)
5. Editorial Board Member, Malaysian Journal of Chemistry (2012-now)
6. Editorial Board Member, Energy and Power (2011-now)
7. Editor, Malaysian Journal of Fundamental and Applied Sciences (2012-now)
8. Editorial Board Member, Journal of Science and Technology UTHM (2010-now)
9. International Editorial Board Member, Bulletin of Chemical Reaction Engineering and Catalysis (2006-2012)
10. Editorial Board Member, Bulletin of Catalysis Society of India (2009-now)
11. Guest Editor, Malaysian Journal of Chemistry (Volume 11, Special Issue, 2009)
12. The Malaysian Journal of Analytical Sciences (2006-2009)
13. Catalysis Section, The Malaysian Journal of Analytical Sciences (2000-2001).
14. Proceedings of the 16<sup>th</sup> National Seminar on Natural Products (2000).