

CURRICULUM VITAE



ZURINA HJ. SHAAMERI

A. Personal Data

1. IC No : 660311-06-5420
 2. Date and Place of Birth : 11/3/1966, Raub, Pahang, Malaysia
 3. Sex : Female
 4. Nationality : Malaysian
 5. Name of Current Employer : Universiti Teknologi MARA
 6. Address : Institute of Science (IOS)
Universiti Teknologi MARA
40450 Shah Alam, Selangor.
(IOS Homepage:
www.ios.uitm.edu.my)
 7. Telephone No : 03-55443264 (O), 03-55127853 (H)
019-3541192 (Mobile)
 8. Fax No : 03-55443870
 9. Email Address : zurina@salam.uitm.edu.my
 10. Position (current) : Director, Institute of Science
-

B. Educational Qualifications

1. Academic qualifications
 - (a) Degree : PhD
 - Field : Organic Synthesis
 - Year : 2007
 - Name & place of institution : Universiti Teknologi MARA

(b) Degree : MPhil
Field : Physical & Organic Chemistry
Year : 1997
Name & place of institution : University of Cambridge, UK

(c) Degree : BSc (Hons) Chemistry
Year : 1988
Name & place of institution : New Mexico Tech., Socorro, New Mexico, USA

2. Academic Awards

Fellow of Cambridge Commonwealth Society, University of Cambridge, UK
(Awarded in July 1997)

Asian Core Program Lectureship Award to Taiwan in 2014
(Awarded in December 2013)

C. Research Background

Fields of specialization : Organic synthesis
Number of years of experience : 16 years (Organic synthesis)
2 years (Crystallography)

Members in International Association/Bodies

Member of American Chemical Society (since 2010)

Members in National Associations/Bodies

Member of ANALIS Malaysia (since 1995)

Member of Natural Products Society Malaysia (since 2005)

Member of Institut Kimia Malaysia (since 2015)

Research Interests

Syntheses of nitrogen heterocycles with pyrrolidine ring system and bicyclic lactone-lactam & lactam-lactam rings; syntheses of proline-derived organocatalysts and ionic liquids for aiding chemical transformations; synthetic/chemical exploration; natural products synthesis.

Research programmes or projects for 2014-2018 (last 5 years):

- (a) **Title** : First Total Synthesis of Regidiusculamide D: Pyrrolidinones from Ascomycete Fungus
- Duration** : 2013-2016
- Amount** : RM 135,000.00
- Position held** : Researcher
- Source of Funding** : FRGS, MOHE
- (b) **Title** : Synthesis of cis-gamma Butyrolactone-Glycine Derivatives
- Duration** : 2013-2016
- Amount** : RM 60,500.00
- Position held** : Researcher
- Source of Funding** : FRGS, MOHE
- (c) **Title** : Novel Pyrrolididne Based Organocatalysts for Asymmetric Aldol Condensation and Michael Addition Reactions
- Duration** : 2013-2015
- Amount** : RM 97,000.00
- Position held** : Researcher
- Source of Funding** : ERGS, MOHE
- (d) **Title** : New Synthetic Strategy for the Synthesis of 3,4-Fused γ -Lactone-Pyrrolidine Bicyclic Moiety as a Multifunctional Synthon
- Duration** : 2013-2016
- Amount** : RM 104,000.00
- Position held** : Head
- Source of Funding** : FRGS, MOE
- (e) **Title** : An Efficient Synthetic Strategy of Hydroxybenzylated 3-Substituted Tetramic Acid for the Synthesis of Lactam-Lactone Bicyclic System
- Duration** : 2013-2016
- Amount** : RM 146,000.00
- Position held** : Head
- Source of Funding** : FRGS, MOE
- (f) **Title** : Hit to Lead – Synthesis and Molecular Modelling of Chalcones and Flavones as Lead Drugs for Inflammatory Disorders
- Duration** : 2014-2017
- Amount** : RM 1.074 million
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Position held	:	Head of program and head of subproject 1
Source of Funding	:	TRGS, MOE
(g) Title	:	The Efficacy and Selectivity of Different Bases and Ionic Liquids in α -Alkylation Reactions of Tetramic Acids and Active Methylene Compounds
Duration	:	July 2017- Jun 2018
Amount	:	RM 20,000.00
Position held	:	Head
Source of Funding	:	Supervision Initiative Grant UiTM
(h) Title	:	Enantioselective Synthesis of Novel and Biologically Active Alkaloids of 3-Hydroxy-4-Quinone-5-Hydroxymethyl-Pyrrolidinones from <i>Algicolous Zeae</i>
Duration	:	2016-2018
Amount	:	RM 66,200.00
Position held	:	Researcher
Source of Funding	:	FRGS, MOE
(i) Title	:	Design, Synthesis and Characterization of New Five-membered Heterocyclic Based Sulfonylurea Compounds
Duration	:	2017-2019
Amount	:	RM 79,000.00
Position held	:	Researcher
Source of Funding	:	FRGS, MOE

D. Research/Academic Achievements

Honors and Awards	:	Bronze Medal in Science & Technology Expo 2004, organized by MOSTI, MINT, MARS, SIRIM
	:	Diamond Award – Invention (Inventor) in iidex2017, organized by RIBU UiTM

Selected publications (international/national refereed journal):

1. Agustono Wibowo, **Zurina Shaameri**, Mohd Fazli Mohammat, Ahmad Sazali Hamzah, **2017**, “Asymmetric reduction of 3-ketoproline ethyl ester by modified

- borohydrides and various vegetables”, *Journal of the Korean Chemical Society*, 61(5), 244-250 (<https://doi.org/10.5012/jkcs.2017.61.5.244>).
2. Mohd Fazli Mohammad, Nur Shazwani Osman, **Zurina Shaameri**, Ahmad Sazali Hamzah, **2017**, “First consecutive linear synthesis of hostmaniene, 5-formyl-2-(isopropyl-1'-ol)benzofuran and anadendroic acid using prenylated phenol”, *Organic Communications*, 10 (2), 130-134, (<http://doi.org/10.25135/acg.oc.17.17.03.011>).
 3. Nor Saliyana Jumali, **Zurina Shaameri**, Habsah Mohamad, Ahmad Sazali Hamzah, **2017**, “Stereoselective reduction of 1-benzyl-3,3-dimethyl-5-methylenepyrrolidine-2,4-dione using sodium borohydride with selected metal chlorides”, *Malaysian Journal of Analytical Sciences*, 21(5), 1176-1182 (DOI: <https://doi.org/10.17576/mjas-2017-2105-22>).
 4. Noor Hidayah Pungot, **Zurina Shaameri**, Ahmad Sazali Hamzah, Mohd Fazli Mohammad, Noorhana Hussain, **2017**, “Synthesis of 3-Methyl-5-Nitrobenzyl β,β -Diketoester as a Derivative of Pachydermin, a Tetramic Acid from *Chamomilla pachydermis*”, *Journal of Sustainability Science and Management*, 12(2), 1-7.
 5. Nor Diyana Abdul Aziz, Norlida Kamarulzaman, Ri Hanum Yahaya Subban, Ahmad Sazali Hamzah, Azni Zain Ahmed, Zurina Osman, Roshidah Rusdi, Norashikin Kamarudin, Norhanim Mohalid, Ahmad Zafir Romli, **Zurina Shaameri**, **2017**, “The electrical conductivities of polyimide and polyimide/Li triflate composites: An ac impedance study”, *AIP Conference Proceedings*, 1877(1), 060007 (1-6) (<https://doi.org/10.1063/1.4999886>).
 6. **Zurina Shaameri**, Nur Aini Azib, Mohd Fazli Mohamat and Ahmad Sazali Hamzah, **2016**, “Synthesis of 3,4-Fused γ -Lactone- γ -Lactam Bicyclic Moieties as Multifunctional Synthons for Bioactive Molecules”, *Journal of Heterocyclic Chemistry*, 53, 1059-1064 (<http://dx.doi.org/10.1002/jhet.2433>).
 7. Mohd Fazli Mohammad, Nurul Shulehaf Mansor, **Zurina Shaameri**, and Ahmad Sazali Hamzah, **2015**, “Diastereoselective Reduction of 2,3-Dioxo-4-carboxy-5-substituted Pyrrolidines using $\text{NaBH}_4/\text{AcOH}$ and Heterogenous Hydrogenation Reactions”, *Journal of the Korean Chemical Society*, 59(1), <http://dx.doi.org/10.5012/jkcs.2015.59.1.31>.
 8. Saiful Azmi Johari, Mastura Mohtar, Sharifah Aminah Syed Mohammad, Rohana Sahdan, **Zurina Shaameri**, Ahmad Sazali Hamzah and Mohd Fazli Mohammad, **2015**, “In Vitro Inhibitory and Cytotoxic Activity of MFM 501, a Novel Codonopsinine Derivative, against Methicillin-Resistant *Staphylococcus aureus* Clinical Isolates”, *BioMed Research International*, Article ID 823829, <http://dx.doi.org/10.1155/2015/823829>.

9. Norhanim Mohalid, Ahmad Sazali Hamzah, **Zurina Shaameri**, 2015, "Chemical Exploration of 4-Hydroxybenzylated 3-Substituted Tetramic Acid", *Malaysian Journal of Analytical Sciences*, 19 (2), 359-368.
10. Nigar Najim, Roshidah Rusdi, Ahmad Sazali Hamzah, **Zurina Shaameri**, Mazatulikhma Mat Zain, Norlida Kamarulzaman, 2014, "Effects of the Absorption Behaviour of ZnO Nanoparticles on Cytotoxicity Measurements", *Journal of Nanomaterials*, pp 1-10, <http://dx.doi.org/10.1155/2014/694737>.
11. Hamzah, A. S., **Shaameri, Z.** & Goksu, S. 2013, "Five-membered nitrogen heterocyclic compounds", *Journal of Chemistry*, vol 2013 (2013), Article ID 250381, <http://dx.doi.org/10.1155/2013/250381>.
12. Zainul Amiruddin Zakaria, Mohd Hijaz Mohd Sani, Mohd Fazli Mohammat, Nurul Shulehaf Mansor, **Zurina Shaameri**, Lay Kek Teh, Mohd Zaki Salleh, Ahmad Sazali Hamzah, 2013, "Antinociceptive Activity of a Synthetic Oxopyrrolidine-based Compound, ASH21374 and Determination of its Possible Mechanisms", *Canadian Journal of Physiology and Pharmacology*, 10.1139/cjpp-2013-0099.
13. Zubair Ahmad, Mahdi Hasan Suhail, Issam Ibrahim Muhammad, Wissam Khayer Al-Rawi, Khaulah Sulaiman, Qayyum Zafar, Ahmad Sazali Hamzah and **Zurina Shaameri**, 2013, "MEH-PPV/Alq₃-based bulk heterojunction photodetector", *Chin. Phys. B*, 22(10), 100701 (1-5).
14. **Zurina Shaameri**, Sharifah Hidayah Sharif Ali, Mohd Fazli Mohamat, Bohari M.Yamin, Ahmad Sazali Hamzah, 2013, "A Short and Elegant Synthesis of (\pm)-Streptopyrrolidine", *Journal of Heterocyclic Chemistry*, 50, 320-325.
15. Nurul Shulehaf Mansor, Mohd Fazli Mohammat, **Zurina Shaameri** and Hamid Khaledi, 2013, "Ethyl 4-hydroxy-1-methyl-5-oxo-2-phenylpyrrolidine-3-carboxylate 1.25-hydrate", *Acta Cryst. E*, E69, o293–o294.
16. Mohd Fazli Mohammat, Nigar Najim, Nurul Shulehaf Mansor, Sharil Sarman, **Zurina Shaameri**, Mazatulikhma Mat Zain, and Ahmad Sazali Hamzah, 2011, "Synthesis and Bioactivity of Some 2-Oxo-5-Aryl-3-Hydrazone and 2-Oxo-5-Aryl-4-Hydrazone Pyrrolidine Derivatives", *ARKIVOC*, ix, 429-438.
17. Sarah, M.S.P.; Zahid, F.S.; Musa, M.Z.; Noor, U.M.; **Shaameri, Z.**; Hamzah, A.S.; Rusop, M. 2011, "Photoconductivity of Nanocomposite MEH-PPV:TiO₂ Thin Film", *Journal of Nano Research*, 13, 87-92.
18. Nigar Najim, Yaser Bathich, Mazatulikhma Mat Zain, Ahmad Sazali Hamzah, **Zurina Shaameri**. (2010), "Evaluation of the Bioactivity of Novel Spiroisoxazoline Type Compounds against Normal and Cancer Cell Lines". *Molecules*. 15, 9340-9353.

19. M.F. Mohammat, **Z. Shaameri**, A.S. Hamzah, (2009) "Synthesis of 2,3-Dioxo-5-(substituted)arylpyrroles and Their 2-Oxo-5-aryl-3-hydrazone Pyrrolidine Derivatives", *Molecules*, 14, 250-256.
20. Yaser Bathich, **Zurina Shaameri**, Ahmad Sazali Hamzah, Ching Kheng Quah, Hoong-Kun Fun, (2009) "6-Benzyl-3-(1,4-dioxaspiro[4.5]decan-2-yl)-8,8-dimethyl-1-oxa-2,6-diazaspiro[4.4]non-2-ene-7,9-dione", *Acta Cryst E*, E65, o2941-o2942.
21. M. Fazli Mohammat, **Zurina Shaameri**, Ahmad Sazali Hamzah, Hoong-Kun Fun and Suchada Chantrapomma, (2008) "4-hydroxy-5-(4-methoxyphenyl)-pyrrolidin-2-one", *Acta Cryst E*, E64, o578-o579.
22. M. Fazli Mohammat, **Zurina Shaameri**, Ahmad Sazali Hamzah, Hoong-Kun Fun and Suchada Chantrapomma, (2008) "Tert-butyl 5-(4-methoxyphenyl)-1-methyl-2-oxopyrrolidin-3-yl carbonate", *Acta Cryst E*, E64, o661-o662.
23. M.Fazli Mohammat, **Zurina Shaameri**, Ahmad Sazali Hamzah, Hong-Kun Fun, Norlida Kamaruzamman and Suchida Chantrapomma, (2008) "Methyl 3-[[1-(4-hydroxyphenyl)-2-methoxy-2-oxoethyl]amino]-3-oxopropanoate hemihydrate", *Acta Cryst E*, E64, o663-0664.
24. **Zurina Shaameri**, Norlida Kamarulzaman, Ahmad Sazali Hamzah and Fun Hoong Kun, (2007) "2-(2-Methoxycarbonyl-acetamido)-3-methylbutyrate", *Acta Cryst.*, E63, o457-o458.
25. Ahmad Sazali Hamzah, **Zurina Shaameri** and Bohari M. Yamin, (2006) "3,3-Dimethylpyrrolidine-2,4-dione" *Acta Cryst.*, Sect. E., E62, o1795-o1797.
26. **Zurina Shaameri**, Azizah Affendi, Halila Jasmani, Ahmad Sazali Hamzah, (2005) "An Approach Towards the Synthesis of 3-Hydroxy-4-Methylproline Isolated from *Aspergillus* sp." *Malaysian Journal of Science*, ISSN 1394-3065, 24, 51-59.
27. Ahmad Sazali Hamzah, **Zurina Shaameri**, Izwan A. Adziz and Bohari M. Yamin, (2003) "Methyl (3SR, 4RS)-3-benzyl-4-hydroxy-2-oxopyrrolidine-3-carboxylate" *Acta Cryst.*, Sect. E, E59, o737-o738.
28. **Zurina Shaameri** and William Jones, (2001) "2,2'-Biphenyl dicarboxylic acid and phenazine: Anhydrous and hydrated" *Mol. Cryst. And Liq. Cryst.*, 356, 131-142.
29. **Zurina Shaameri**, Ning Shan and William Jones, (2001) "Diphenic acid – acridine (1/1)" *Acta Cryst.*, Sect. E, E57, o1075-o1077.

30. **Zurina Shaameri**, Ning Shan and William Jones, (2001) "Acridinium isophthalate" *Acta Cryst.*, Sect. E, E57, o945-o946.

Proceedings and other publications:

1. Sharifah Hidayah Sharif Ali, Mohd Fazli Mohammat, Ahmad Sazali Hamzah, **Zurina Shaameri**, 2013, "An Approach towards the Syntheses of Preussin", *Organic Synthesis: New Frontiers in organic Chemistry, Proceedings of the 2nd National Symposium in Organic Synthesis*, Institut Sains UiTM, ISBN ISBN 978-967-1071-31-9, 119-128.
2. Aimi Suhaily Saaidin, **Zurina Shaameri**, Ahmad Sazali Hamzah, 2013, "Chemical Explorations of 3-Pyrroline-2-one: Michael Addition and Epoxidation", *Organic Synthesis: New Frontiers in organic Chemistry, Proceedings of the 2nd National Symposium in Organic Synthesis*, Institut Sains UiTM, ISBN ISBN 978-967-1071-31-9, 75-81.
3. Nurulhuda Kamaruddin, **Zurina Shaameri**, Ahmad Sazali Hamzah, 2013, "Total Synthesis of Janolusimide: Construction of the Lactam Ring", *Organic Synthesis: New Frontiers in organic Chemistry, Proceedings of the 2nd National Symposium in Organic Synthesis*, Institut Sains UiTM, ISBN ISBN 978-967-1071-31-9, 93-97.
4. Norhanim Mohalid, Ahmad Sazali Hamzah, **Zurina Shaameri**, 2013, "Chemical Exploration towards the Synthesis of 4-Hydroxybenzylated N-Methyl 3-Acyl Tetramic Acid", *Organic Synthesis: New Frontiers in organic Chemistry, Proceedings of the 2nd National Symposium in Organic Synthesis*, Institut Sains UiTM, ISBN ISBN 978-967-1071-31-9, 107-112.
5. Irmaizatussyehdany Buniyamin, **Zurina Shaameri**, Ahmad Sazali Hamzah, 2013. "Stereoselective Reduction of Pyrrolidine-2,4-dione with Sodium Borohydride in the Presence of Metals Salts", *Organic Synthesis: New Frontiers in organic Chemistry, Proceedings of the 2nd National Symposium in Organic Synthesis*, Institut Sains UiTM, ISBN ISBN 978-967-1071-31-9, 53-59.
6. Zayana, N.Y., Shariffudin, S.S., Jumali, N.S., **Shaameri, Z.**, Hamzah, A.S., Rusop, M., 2011, "Optical properties of MEH-PPV", AIP Conference Proceedings, 1328, pp. 271-273.

7. Norlida Kamarulzaman, Nor Diyana Abdul Aziz, Ri Hanum Yahaya Subban, Ahmad Sazali Hamzah, Azni Zain Ahmed, Zurina Osman, Roshidah Rusdi, Norashikin Kamarudin, Nor Saliyana Jumali and **Zurina Shaameri**, **2011**, "Poly[2-Methoxy-5-(2'-Ethylhexyl-oxy)-(p-Phenylenevinylene)] (MEH-PPV) Synthesized via a Modified Gilch Method and the Electrical Conductivities of MEH-PPV/MCMB Films", The Proceedings of 3rd International Symposium & Exhibition in Sustainable Energy & Environment, 63-68.
8. Norizan Ahmat, Nurunajah Ab. Ghani, Ishak Zakaria @ Ali, **Zurina Shaameri**, Ikram M. Said, Laily B. Din and Jalifah Latip, **2010**, Morphinandienone Alkaloids from the Leaves of *Alseodaphne perakensis*, *The proceedings of The Second UKM-UI Joint Seminar 2009*, 170-174.
9. M.S.P.Sarah, Member, IEEE, M.Z.Musa, A.B.Suriani, N.S.Jumali, **Z.Shaameri**, A.S.Hamzah and M.Rusop, **2010**, Study on Existence of CNT in Nanocomposite CNT/MEH-PPV Thin Film, ICSE2010 Proc. 2010, Melaka
10. Taib, M.H.; Zainal, N.F.A.; Jumali, N.S.; **Shaameri, Z.**; Hamzah, A.S.; Rusop, M.; (**2009**) "Effect of CNTs in the Polymer Base Nano-Composite Thin Films on the Structure and Electrical Properties", *AIP Conference Proceedings of the International Conference on Nanoscience and Nanotechnology (NANO-SciTech 2008)*, vol 1136, 766-769.
11. **Zurina Shaameri** and Ahmad Sazali Hamzah, (**2008**) "Synthetic Studies and Biological Activity of Some Pyrrolidinone Type Compounds", *Herbal Medicine: Nature's Gift for Health, Proceedings of the 21st Annual Seminar of the Malaysia Natural Products Society*, Universiti Kebangsaan Malaysia, ISBN 978-983-43150-5-4, 303-312.
12. **Zurina Shaameri**, Azizah Affendi, Mazatulikhma Mat Zain and Ahmad Sazali Hamzah, (**2005**) "Total Synthesis and Biological Studies of a New Anti-Proteasome Drug, Lactacystin and its Derivatives" *Proceedings SEMINAR IRPA 2005, Universiti Teknologi MARA*, ISBN 983-9414-61-5, 189-191.
13. **Zurina Shaameri**, Azizah Affendi and Ahmad Sazali Hamzah, (**2004**) "Designing Organic Molecules in the Laboratory" *Berita IKM Chemistry in Malaysia*, June 2004, Issue No. 75, 5-7.
14. **Zurina Shaameri**, Halila Jasmani and Ahmad Sazali Hamzah, (**2003**) "Synthetic Studies of Some Pyrrolidinone Type Compounds" *The Proceedings of Annual Fundamental Science Seminar 2003 (AFSS 2003)*, ISBN 983-52-0302-4, 103-107.
15. **Zurina Shaameri**, Ahmad Sazali Hamzah and Halila Jasmani, (**2003**) "Chemical Studies of Some Alkyl-Substituted Pyrrolidinone" *Prosiding Seminar Insights CSSR 2003, Universiti Teknologi MARA*, 86-90.

Books:

1. Ahmad Sazali Hamzah, Rozana Abdul Razak and **Zurina Shaameri**, (2004) "Istilah-Istilah Penting Kimia Organik", UPENA, Universiti Teknologi MARA, ISBN 967-958-149-7.
2. Norizan Ahmat, **Zurina Shaameri**, Ahmad Sazali Hamzah and Halila Jasmani, (2009) "Teaching Aid: Reactions of Organic Compounds", UPENA, Universiti Teknologi MARA, ISBN 978-967-305-328-5.

Reviewer for journal articles:

1. European Journal of Chemistry (2010)
2. Malaysian Journal of Chemistry (2011)
3. Sains Malaysiana (2011-present)
4. Synthetic Communications (SynComm) (2012-present)
5. Journal of Chemistry (2013-present)
6. Journal of Heterocyclic Chemistry (2013-present)

Editor for journal articles:

1. Journal of Chemistry (Guest Editor for Special Issue: Five-Membered Nitrogen Heterocyclic Compounds) (2013)

External and Internal Examiner of PhD/MSc Thesis

1. Year: 2010
Name: Mohd Fadhlizil Fasihi Mohd Aluwi
Course: MSc (UiTM), Faculty of Applied Sciences
Title: Synthesis and Biological Activities of Diarylpentanoids and their Pyrazoline Analogues
2. Year: 2011
Name: Nur Husna Mohamad Nor
Course: MSc (UTP), Chemical Engineering
Title: Determination of Formation for Fouling Precursor in Sweet Crude Oil
3. Year: 2011
Name: Norhasnan Sahari
Course: MSc (UNIMAS), Faculty of Resource Science and Tech

- Title: Synthesis and Characterization of Chalcone and Schiff's Base Derivatives, Investigation on Chalcone's Liquid Crystal Phase and Biological Activity Properties
4. Year: 2012
Name: Hamisu Abdu
Course: MSc (UPM), Faculty of Science
Title: Glycosidation of Betulinic Acid using Enzymes
5. Year: 2013
Name: Nurasyikin Hamzah
Course: MSc (UIA), Kulliyah of Science
Title: Synthesis, Biological Activity and Docking: A Novel Series of Benzimidazole Derivatives as Potential Neuraminidase Inhibitor
6. Year: 2013
Name: Siti Fadilah Juhan
Course: MSc (UPM), Faculty of Science
Title: Mechanistic Studies of the Nucleophilic Substitution of New Aminoanthraquinone Derivatives
7. Year: 2015
Name: Aboubaker Abdulnabi Elhadi
Course: PhD (USM), Faculty of Science
Title: Phytochemical Study on the Rhizomes of Smilax myosotiflora and Synthesis of new Aurone Derivatives with their Cytotoxic Activities
8. Year: 2015 (Re-examination)
Name: Hamisu Abdu
Course: MSc (UPM), Faculty of Science
Title: Glycosidation of Betulinic Acid using Lipase
9. Year: 2015
Name: Noor Aisyah Ahmad
Course: MSc (UTM), Faculty of Science
Title: Synthesis, Characterization, Antibacterial and Antibacterial Assay of Thiophene Chalcones, 3-Acetyl-2-Pyrazoline and 3-Phenyl-2-Pyrazoline Derivatives
10. Year: 2016
Name: Tan Ke Xin
Course: PhD (UTM), Faculty of Science
Title: Synthesis and Photophysical Studies of Porphyrin Arrays

11. Year: 2017
Name: Carolynne Sie Zie Wei
Course: PhD (UNIMAS), Faculty of Resource Science and Technology
Title: Synthesis of Kojic Acid Derivatives and the Applications
12. Year: 2017
Name: Chiya Othman Hassan
Course: MSc (UTM), Faculty of Science
Title: Synthesis, Characterization and Biological Activity of New Symmetrical 1,3-Benzoxazine Compounds
13. Year: 2017
Name: Fitriah Hadip
Course: MSc (UiTM), Faculty of Applied Sciences
Title: Synthesis of Terbium Acetate Hydrate Doped New Irradiated PPV Derivatives via Microwave Irradiation Technique and Its Characterizations
14. Year: 2018
Name: Sabahat Sardar
Course: PhD (UTP), Fundamental and Applied Sciences
Title: Synthesis of Sulfonate Functionalized Protic Ionic Liquids for Preparation of Mannich-Type Bases and Alkaloids
15. Year: 2018
Name: Yousif Ismael Saeed
Course: MSc (UPM), Faculty of Sciences
Title: Synthesis, Characterization and Biological Activity of New Azo Coumarin Compounds
16. Year: 2018
Name: Chan Pei Qie
Course: MSc (UM), Faculty of Sciences
Title: Facile Intramolecular Cyclization of *N*-(2-Hydroxy benzoyl) Hydrazones to *N,N'*-Diacetyl Benzo-1,3-Oxadiazepine Derivatives
17. Year: 2018
Name: Puvaneswari Marappam
Course: MSc in Medical and Health Sciences (IMU), School of Pharmacy
Title: Synthesis of Novel Tetrahydrothiazolo(5,4-*c*)pyridines and *in-vitro* Evaluation of their Anti-Inflammatory Activity

18. Year: 2018
Name: Nadia Mohamed Yusoff
Course: MSc (USM), Pusat Pengajian Sains Kimia
Title: Sintesis dan Pencirian Terbitan Baru Spiro Piroolidina sebagai Perencat Kolinesterase

Supervision of Postgraduate Students:

1. Year: 2007-2010 (graduated) (Co-Supervision)
Name: Mohd Fazli Mohammat
Course: PhD (UiTM), Faculty of Applied Sciences
Title: Synthetic Studies towards The Total Synthesis of Codonopsinine, and Anti-hypertensive Compound from *Codonopsis clematidea*
2. Year: 2008-2010 (graduated) (Co-Supervision)
Name: Nur Saliyana Jumali
Course: MSc (UiTM), Faculty of Applied Sciences
Title: Syntheses, Characterizations and Thermal Analysis of Novel PPV Derivatives
3. Year: 2009-2011 (graduated) (Main-Supervision)
Name: Sharifah Hidayah Binti Sharif Ali
Course: MSc (UiTM), Faculty of Applied Sciences
Title: Synthetic Studies towards the Total Synthesis of (+)-Preussin
4. Year: 2011-2014 (graduated) (Co-Supervision)
Name: Agustono Wibowo
Course: PhD (UiTM), Faculty of Applied Sciences
Title: Phytochemical Study of Dryobalanops from Malaysian Dip Terocarpaceae and Structure-Activity Relationship Studies
5. Year: 2011-2015 (graduated) (Co-Supervision)
Name: Norhazana Binti Norizan
Course: PhD (UiTM), Faculty of Applied Sciences
Title: Chemical Constituents, Structural Modification and Biological Studies of Selected Shorea Species
6. Year: 2011-2014 (graduated) (Main-Supervision)
Name: Norhanim Binti Mohalid
Course: MSc (UiTM), Faculty of Applied Sciences
Title: A flexible and efficient synthesis of hydroxybenzylated *N*-methyl 3-acetyltetramic acid

7. Year: 2011-2013 (graduated) (Co-Supervision)
Name: Aziah Ahmad Ariffin
Course: MSc (UiTM), Faculty of Applied Sciences
Title: Synthesis of polyfluorene and its derivatives via electrodeposition technique
8. Year: 2011-2013 (graduated) (Co-Supervision)
Name: Nurul Zayana Yahya
Course: MSc (UiTM), Faculty of Applied Sciences
Title: Preparation and characterization of MEH-PPV/ZnO nanocomposite
9. Year: 2011-2016 (graduated) (Co-Supervision)
Name: Nurulhuda Kamaruddin
Course: PhD (UiTM), Faculty of Applied Sciences
Title: Chemical Studies towards the Total Synthesis of Janolusimide
10. Year: 2011-2015 (graduated) (Co-Supervision)
Name: Nor Saliyana Jumali
Course: PhD (UiTM), Faculty of Applied Sciences
Title: Studies towards the Total Synthesis of Zopfiellamides A
11. Year: 2012-2014 (graduated) (Co-Supervision)
Name: Aimi Suhaily Saaidin
Course: MSc (UiTM), Faculty of Applied Sciences
Title: Chemical Exploration of 3-Pyrrolidin-2-one, Michael Addition and Epoxidation Reaction
12. Year: 2014-2017 (graduated) (Main-Supervision)
Name: Nur Aini Azib
Course: PhD (UiTM), Faculty of Applied Sciences
Title: Design, Synthesis and Chemical Exploration of 3,4-Fused γ -Lactone- γ -Lactam and γ -Lactone-Pyrrolidine Systems
13. Year: 2014-2017 (graduated) (Co-Supervision)
Name: Nurul Syafiqah Rezali
Course: PhD (UiTM), Faculty of Applied Sciences
Title: Design, Synthesis and Chemical Studies of Some 5,5-Fused Heterocyclic (lactam-lactam and lactone-lactam) Ring Systems
14. Year: 2014-present (waiting for *viva-voce*) (Main-Supervision)
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17. Year: 2016-present (Main-Supervision)
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Title: Synthesis of an antipsychotic agent, nemonapride and its derivatives
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