



**Name** : Nor Azimah Mohd Zain  
**Date of Birth** : 4 Oktober 1982  
**Nationality** : Malaysian  
**Marital Status** : Married

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### **ACADEMIC QUALIFICATION**

Year : Ph.D. Bioprocess Engineering  
Universiti Teknologi Malaysia

Year : B. Sc. Bachelor of Science (Biotechnology)  
Universiti Putra Malaysia

## **AWARDS AND HONORS RECEIVED**

- i) Award of Excellence, Active Blended Learning Course, Semester 2 – 2016/ 2017, Course SMBT4323-01
- ii) Award of Excellence, Active Blended Learning Course, Semester 1 – 2016/2017, Course AMBT4293-01
- iii) Anugerah Perkhidmatan Cemerlang, Majlis Citra Karisma UTM, 2014.
- iv) Silver Medal, Invention, Innovation, Industrial Design and Technology Exhibition (ITEX), 2013
- v) Silver Medal, Invention, Innovation, Industrial Design and Technology Exhibition (ITEX), 2013
- vi) Bronze Medal, Invention, Innovation, Industrial Design and Technology Exhibition (ITEX), 2013
- vii) Bronze medal, Industrial Art and Technology Exhibition (INATEX 2011), Universiti Teknologi Malaysia.
- viii) Bronze medal, Industrial Art and Technology Exhibition (INATEX 2011), Universiti Teknologi Malaysia.
- ix) Gold Medal Seoul International Invention Fair (SIIF), 2009
- x) Bronze medal, Industrial Art and Technology Exhibition (INATEX 2008), Universiti Teknologi Malaysia.

## **PROFESSIONAL EXPERIANCE**

- i) Energy Manager, Faculty of Biosciences and Bioengineering (2011-2012)
- ii) Member of The Royal Society of Biology, UK  
Membership: P0124462
- iii) International Water Association Membership: 01054852

## **ADMINISTRATIVE EXPERIENCE**

### **Faculty Level**

- i) Jun 2017 – Appointed as ‘How to Get Yourself Employed’ (HTGYE) for Faculty of Biosciences and Medical Engineering (FBME)
- ii) May 2016 - Appointed as Green Manager for Faculty of Biosciences and Medical Engineering (FBME)
- iii) May 2016 - Appointed as secreteray for Green Committee, Faculty of Biosciences and Medical Engineering.
- iv) May 2016 – appointed as committee of Occupational Safety, Health and Environment Unit (OSHE) of Faculty Biosciences and Medical Engineering
- v) April 2016 – Appointed as Committee Biology/ Industrial Biology Academic Programme of FBME
- vi) Januari 2014 – Appointed as Green Manager of FBME
- vii) April 2014 – Appointed as task force committee for FYUP mini conference of FBME
- viii) January 2014 – Appointed as committee for Harvard Business School (HBS), FBME
- ix) April 2013 - Appointed as Panel Akademik Course Specialist, Environmental Biotechnology Cluster of FBME
- x) March 2013 – Appointed as coordinator for laboratory for FBME programme
- xi) January 2013 – Appointed as task force committee for MQA02 document preparation of FBME
- xii) September 2012 - Appointed as Panel Akademik Course Specialist, General Bioscience Cluster of FBME
- xiii) June 2012 – Appointed as task force Committee for MQA02 document preparation of FBME

- xiv) February 2012 – Appointed as Evaluator panel for ERGS 1, Water Research Alliance
- xv) February 2012 – Appointed as Evaluator panel for FRGS, Water Research Alliance
- xvi) January 2012 – Appointed as Final Year Undergraduate Programme (FYUP) Coordinator of FBME
- xvii) October 2011 – Appointed as task force committee for undergraduate programme of Faculty of Biosciences and Bioengineering (FBB)
- xviii) September 2011 – Appointed as FYUP1 coordinator, Biotechnology Department, FBB
- xix) March 2011 – Appointed as Energy Manager, FBB
- xx) February 2011 – Appointed as marketing committee, Department of Biotechnology, FBB
- xxi) January 2011 – Appointed as coordinator for FYUP 1, FBB
- xxii) July 2010 – Appointed as committee for FBB Annual Report and Bulletin
- xxiii) July 2010 – Appointed as coordinator for undergraduate programme, FBB
- xxiv) Jun 2011 – appointed as panel for postgraduate student special case , FBB

### **University Level**

- i) Jun 2016 – Appointed as Green Manager for PTJ (FBME)
- ii) January 2014 – Appointed as Green Manager for PTJ (FBME)
- iii) November 2013 – Appointed as conference committee for undergraduate students FBME
- iv) May 2013 – Appointed as Green Manager for PTJ (FBME)
- v) March 2011 – Appointed as bursar for UTM Innovation and Creativity Festival (UTMost Imagination)

- vi) March 2011 – Appointed as Energy Manager for PTJ (FBB)

#### **NATIONAL COMMITTEE**

- i) August 2014 - Appointments as member of Malaysian Society and Molecular Biology and Biotechnology (MSMBB)
- ii) January 2011 – Appointed as Scientific Committee for Biojohor Conference
- iii) Jun 2016 – Appointed as supervisor for Innovation project of SM Sains Sultan Iskandar, Mersing.

#### **INTERNATIONAL APPOINTMENT/COMMITTEE**

- i) April 2016 – Appointed as member of Royal Society of Biology, UK
- ii) Januari 2016 – Appointes as member of Asian Federation of Biotechnology (AFOB)
- iii) February 2014 – Appointed as committee for The 2nd IWA Malaysia Young Water Professional Conference 2015
- iv) June 2013 – Appointed as Editor for Jurnal Teknologi (Special Issue)
- v) September 2011 – Appointed as Main Scientific Committee for The 3rd International Conference on Biotechnology and Biodiversity, BioJohor

#### **PROFESSIONAL MEMBERSHIP AND RECOGNITION**

- i) Energy Manager, Faculty of Biosciences and Bioengineering (2011-2012)
- ii) Member of The Royal Society of Biology, UK  
Membership: P0124462
- iii) International Water Association Membership: 01054852

**TEACHING EXPERIENCES****UNDERGRADUATE COURSES TAUGHT**

Semester	Sem	Subject code	Subject	Credit Hour	Total
201620171	1	SGSF	Industrial Training	11	11
201620171	1	SMBT4922	Undergraduate Project 1	2	2
201420151	2	SQBI3333	Food Microbiology	3	3
201420151	1	SQBI3353	Food Microbiology	3	3
201320142	2	SQG4323	Bioremediation and Biodegradation	3	3
201320142	2	SMBB1222	Introduction to Biosciences	2	2
201320141	1	SQBI3353	Industrial Microbiology	3	3
201320141	2	SQBI3333	Food Microbiology	3	3
201320141	1	SQBI3333	Food Microbiology	3	3
201220132	2	SQBS1222	Introduction to Biosciences	2	2
201220131	1	SQG3353	Industrial Microbiology	3	3
201120122	2	SQG3332	Food Microbiology	2	2
201120122	2	SQG3332	Food Microbiology	2	2
201120122	2	SQG3432	Virology	2	2
201120121	1	SQG3352	Industrial Microbiology	2	2
201120121	1	SQG3152	Bioremediation and Biodegradation	2	2
201120121	1	SQG3152	Bioremediation and Biodegradation	2	2
201120121	1	SQG3352	Industrial Microbiology	2	2
201020112	2	SQG3332	Food Microbiology	2	2
201020112	2	SQG3332	Food Microbiology	2	2
201020112	2	SQG3924	Final Year Undergraduate Project II	4	4
201020112	2	SQG3433	Virology	3	3
201020111	1	SQG3572	Biological Control and Environmental Conservation	2	2
201020111	1	SQG3572	Biological Control and Environmental Conservation	2	2
201020111	1	SQG 3572	Biological Control and Environmental Conservation	2	2
200920102	2	SSG3583	Ecology	3	3
200920102	2	SQG 3583	Ecology	3	3
200920101	1	SSG3572	Biological Control and Environmental Conservation	2	2
200920101	1	SSG3572	Biological Control and	2	2

			Environmental Conservation		
200920101	1	SQG1811	Microbiology (Practical)	1	1
200920101	1	SQG1811	Mikrobiologi (Practical)	1	1

#### POSTGRADUATE COURSE TAUGHT

Nil

#### SUPERVISION OF VISITING PROFESSORS

Nil

#### RESEARCH PROJECT UNDERTAKEN

#### FUNDAMENTAL RESEARCH GRANT SCHEME (FRGS FUND)

Date	: <b>Project Leader/ Project Member</b>
2013 - 2015	i) <b>Project Member</b> , Characterization of alginate-like exopolysaccharides isolated from aerobic granular sludge in industrial wastewater, RM95000, Vot 4F198.
2010 – 2012	ii) <b>Project Leader</b> , A Preliminary Study On Immobilization Of Phanerochaete Chrysosporium In PVA-Alginate Beads (Pi 20081825) Specifically For Textile Dye Waste Treatment, RM38500, Vot 3F611.

#### EXPLORATORY RESEARCH GRANT SCHEME (ERGS FUND)

2012 - 2015	i) <b>Project Leader</b> , Exploratory experiment on lactic acid production from solid pineapple waste using <i>Rhizopus oryzae</i> , RM76000, Vot 4L085.
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#### RESEARCH UNIVERSITY GRANT SCHEME (RUG TIER 1 & 2)

2018 - 2020	<b>Project Member</b> , Removal of Organics and Nutrients from Domestic Wastewater using Biogranulation Technology, RM50000, Vot 18H89
2017 - 2019	<b>Project Leader</b> , Surveillance of Antibiotics Resistance Bacteria and Genes in Aquaculture Sources, RM 39500, Vot 17H74. (UTM-Fisheries Research Institute (FRI) Collaboration)
2017 - 2019	<b>Project Member</b> , Determination of Antibiotics and Their Resistance Bacteria in Green Lipped Mussels, RM39600, Vot 17H15. (UTM-Indah Water Consortium (IWK) Collaboration)
2017 - 2019	<b>Project Member</b> , Characteristics of Granular-Forming Bioflocs for Efficient N and P Removal at Industrial Wastewater Treatment Plant, RM40000, Vot 17H11.
2016 - 2017	<b>Project Leader</b> , Potential Use of Mesocarp Fiber for Biosugar

	Production using Crude Enzyme from Lignocellulosic Degrading Fungi, RM50000, Vot 14H42.
2015 - 2016	<b>Project Leader</b> , Biodiesel Production from Palm Oil Mill Effluent using Immobilized Lipase in PVA-Alginate-Sulfate Matrix, RM51250, Vot 11H02. (UTM-Kulim Nursery Sdn. Bhd. Collaboration)
2014 - 2017	<b>Project Member</b> , Production of Biodiesel using Noval Simultaneous Extraction Transesterification from Microalgae Suitable for Jet Fuel, RM100000, Vot 02G33.
2014 - 2015	<b>Project Leader</b> , A Preliminary Study on Lactic acid production from Cassava Mill Effluent (CME) using <i>Rhizopus oryzae</i> immobilized in PVA-alginate-sulfate beads, RM40000, Vot 07H26.
2014-2015	<b>Project Member</b> , Application of Biotechnology and Related-Sciences in Health and Waste Management (UTM-Argentina Collaboration), RM100000, Vot 01G64.
2012 - 2013	<b>Project Leader</b> , Optimization of Bioethanol Production from Liquid Pineapple Waste by Immobilized <i>Saccharomyces Cerevisiae</i> Var. <i>Ellipsoideus</i> In PVA-Alginate-Sulfate Beads, RM41000, Vot 06J58.
2011 - 2012	<b>Project Leader</b> , Bioethanol Production by Immobilized <i>S.Cerevisiae</i> Var. <i>Ellipsoideus</i> in Modified PVA-Alginate Matrix (Pi 20081825) From Liquid Pineapple Waste, RM40000, Vot 02J29.

#### **COLLABORATIVE RESEARCH GRANT (CRG-UTM)**

2018 - 2020	<b>Program Leader</b> , Investigation Multiple Antibiotic-resistant Pathogenic Bacteria from Sewage Treatment Plant in Skudai, Johor, Malaysia, RM100000, Unregistered.
2018 - 2020	<b>Project Member</b> , Characterization the physicochemical parameters of wastewater collected from domestic wastewater treatment plants in Johor, RM20000 (UTM-Universiti Malaysia Perlis Collaboration), Unregistered.
2018 - 2020	<b>Project Leader</b> , Metagenomic analysis and ARGs analysis ( <i>cat</i> , <i>cmr</i> , <i>bla<sub>TEM</sub></i> , <i>bla<sub>SHV</sub></i> , <i>sulI</i> , <i>sulII</i> , <i>tetW</i> , and <i>tetO</i> ) on the sewage effluent samples, RM20000 (UTM-Universiti Putra Malaysia Collaboration), Unregistered.
2018 - 2020	<b>Project Member</b> , Identify the modification of the isolated AMR bacteria protein using Two-dimensional gel electrophoresis (2DE) and MALDI-TOF Mass Spectrometry, RM20000 (UTM-Universiti Malaysia Terengganu Collaboration), Unregistered.

#### **INTERNATIONAL GRANT**



2017 Project Leader, Biology Outreach Programme for Malaysia Primary School Children, RM 2568, Vot 4Y113 (Regional Grant by Royal Society of Biology, UK)

#### **MOU/ MOA**

10th of May 2016 Liaison officer for MOU between UTM-Kulim Nursery Sdn. Bhd.

27th of November 2017 Liaison officer for MOU between UTM-The University of Newcastle upon Tyne

2018 (MOA under review) Liaison officer for MOA between UTM-Universiti Malaysia Perlis (Unimap) for Collaborative Research Grant UTM, RM20000.

2018 (MOA under review) Liaison officer for MOA between UTM-Universiti Putra Malaysia (UPM) for Collaborative Research Grant UTM, RM20000.

2018 (MOA under review) Liaison officer for MOA between UTM-Universiti Malaysia Terengganu (UMT) for Collaborative Research Grant UTM, RM20000.

#### **PATENT GRANTED**

Nil

#### **PATENT FILED/DISCLOSURE**

- i) 2017, Modified Memmert-Tray Bioreactor Designed for Solid State Fermentation (SSF) Analysis, Reference No: IP/PT/2017/0437
- ii) 2014, Direct Production of Lactic Acid from Solid Pineapple Waste Via Solid State Fermentation (SSF) using *Rhizopus Oryzae*, Reference No: IP/PT/2014/4830
- iii) 2012, Immobilized Lipase in -VA-Alginate-Sulphate Beads to Convert Waste Cooking Oil into Biodiesel, Reference No: IP/PT/2012/2942
- iv) 2012, Immobilized *Saccharomyces Cerevisiae* Var. *Ellipsoideus* in PVA-Alginate-Sulfate Beads for Bioethanol Production from Liquid Pineapple Waste, Reference No: IP/PT/2012/2943
- v) 2012, Immobilized *Phanerochaete Chrysosporium* in PVA-Alginate-Sulphate Beads to Treat Dyes, Reference No: IP/PT/2012/2895

## POSTGRADUATE SUPERVISION

### PhD Student

Year	No.	Name	Status	Title	Roles of supervisor
2011	1	Laila Muftah Ali Zargoun	Graduated	Aluminium Ion (Iii) Biosorption Magnetotactic <i>Alcaligenes Sp Sum 123</i> Isolated from Skudai River Johor	Main Supervisor
2011	2	Siti Nurbalqis Bt Aziman	Graduated	Lactic Acid Production From Solid Pineapple Waste using <i>Rhizopus Oryzae</i>	Main Supervisor
2013	3	Abdulkarim Ali Deba	Graduated	Biosugar Production from Oil Palm Mesocarp Fiber using Crude Lignocellulosic Degrading Enzymes from <i>Rhizomucor Pusillus AK2</i>	Main Supervisor
2011	4	Nor Badzilah Binti Hasan	On-going	Production of Biodiesel from Waste Cooking Oil by Immobilized Lipase in Modified PVA-Alginate Beads	Main Supervisor
2011	5	Katijah Binti Mahat	On-going	The Optimization of <i>Nannochloropsis Oculata</i> Growth, Lipid Productivity for High Quality Biodiesel Production	Co-Supervisor
2012	6	Qistina Binti Ahmad Kamal	On-going	Poly-Lactic Acid Production from Cassava Mill Effluent (CME) using <i>Rhizopus Oryzae</i> Immobilized in PVA-Alginate-Sulfate Beads	Main Supervisor
2013	7	Teo Chee Loong	Graduated	New Microwave Based Transesterification Techniques for Biodiesel Production from Cultivated Microalgae	Co-Supervisor
2016	8	Low Keat Long	On-going	Stimulate Lutein Synthesis in <i>Scenedesmus Sp</i> using New Light Quality and Extraction Via Green Solvent Microwave and Ultrasound Assisted Method	Co-Supervisor
2017	9	Saffaatul Husna Binti Ismail	On-going	Determination of Antibiotics and Their Resistance Bacteria in Green Lipped Mussels	Co-supervisor
2017	10	Batool Hazim	On-going	Surveillance of Antibiotics Resistance Bacteria and Genes in Aquaculture Sources	Main Supervisor

**MSc. Student**

Year	No.	Name	Status	Title	Type	Roles Of Supervisor
2011	1	Nor Atikah Husna Bt Ahmad Nasir	Graduated	Immobilization of <i>Phanerochaete Chrysosporium</i> in Pva-Alginate-Sulphate Beads for Decolourization of Textile Effluents	Research	Main Supervisor
2012	2	Sarina Binti Mat Rosid	Graduated	Bioethanol Production from Liquid Pineapple Waste using Immobilized <i>Saccharomyces cerevisiae</i> var. <i>ellipsoideus</i> in PVA-Alginate-Sulfate Beads	Research	Main supervisor
2012	3	Qistina Binti Ahmad Kamal	Graduated	Production of Itaconic Acid from Palm Oil Mill Effluent (POME) using <i>Aspergillus terreus</i> NRRL 1960 Immobilized in PVA-Alginate-Sulfate Beads	Mix-mode	Main supervisor
2012	4	Farzaneh Sabbagh Mojaveryazdi	Graduated	Production of Polyhydroxyalkanate (PHA) from Waste Cooking Oil using <i>Pseudomonas Oleovorans</i>	Mix-mode	Main supervisor
2013	5	Darshini A/P Chandra Seker	Garduated	Optimization of Glucose Production from Liquid Pineapple Waste using Immobilized Invertase in PVA-Alginate-Sulfate Beads	Mix-mode	Main supervisor
2013	6	Fatemeh Hadian Rasnani	Graduated	Isolation and Identification of Polyhydroxyalkanoate	Mix-mode	Main supervisor

				Producing Bacteria from Waste Cooking Oil		
2014	7	Shah Nasir	Graduated	A Comparative Study on Immobilized Mycelium and Spores of <i>P.cryosporium</i> in PVA-Alginate-Sulfate Beads for Textile Dyes Effluent Treatment	Mix-mode	Main supervisor
2014	8	Nabilah Zulkifli	Graduated	Biodiesel Production from Palm Oil Mill Effluent (POME) using Lipase Immobilized in PVA-Alginate-Sulfate Beads	Mix-mode	Main supervisor
2015	9	Idris Adamu Matinja	Graduated	Optimization of Biodiesel Production from POME using Lipase Immobilized in PVA-Alginate-Sulfate Beads	Mix-mode	Main supervisor
2016	10	Athena Dana	On-going	The Application of Magnetotactic Bacteria in Microbial Fuel Cell Bioreactor	Mix-mode	Main supervisor
2017	11	Muhammad Nazirul Haziq Mohd Yusof	On-going	Isolation and Characterization of Antibiotic Resistance Bacteria in Rivers in Perak	Mix-mode	Main supervisor
2018	12	Kam Kar Yern	On-going	Surveillance of Antibiotics Resistance Bacteria and Genes in Aquaculture Sources from Johor Streams	Mix-mode	Main supervisor

#### **POSTGRADUATE EXAMINATION /VIVA**

#### **UTM STUDENTS/VIVA**

- i) Appointed as examiner for students abstract, FBME, Mac 2016
- ii) Appointed as examiner for postgraduate research proposal, Semester, 2015/2016, May 2016

- iii) Appointed as Examiner/ Chairperson for Mphil (Bioscience)/ PhD Presentation Semester 2, Session 2015/2016, April 2016
- iv) Appointed ad Examiner for MQT Proposal, Semester 2, Session 2014/2015, August 2014
- v) Appointed as examiner for master/PHD proposal presentation, Semester 2, Session 2013/2014, May 2014
- vi) Appointed as Examiner for mini viva dissertation (MQT), Semseter 1, Session 2013/2014, January 2014
- vii) Appointed as examiner for MQT proposal, Semester 1, Session 2013/2014, January 2014
- viii) Appointes as Examiner for Master (Biosciences)/Phd Proposal Presentation Semester 2, Session 2012/2013, April 2013
- ix) Appointed as Examiner for MQT Viva Dissertation, Semester 2, Session 2012/2013, June 2013
- x) Appointed as Examiner for MQT Viva Dissertation, Semester 2, Session 2012/2013, July 2013
- xi) Appointed as examiner for MQT Viva Dissertation, Semester 2, Session 2012/2013, July 2013
- xii) Appointed as examiner for MQT proposal, February 2013
- xiii) Appointed as examiner for MQT mini viva dissertation, August 2013
- xiv) Appointed ad examiner for MQT proposal, Semester 2, 2012/2013, July 2013
- xv) Appointed ad examiner for MQT mini viva dissertation, January 2013
- xvi) Appointed as MQT mini viva dissertation, January 2013
- xvii) Appointed as examiner for MQT proposal, Semester 2 2013/2014, July 2013
- xviii) Appointed as examiner for MQB AND PQB proposal presentation, Semester 1, Session 2013/2014, November 2013
- xix) Appoinment as a PAnel Examiner Chairperson for PhD Biosciences First Year First YEar Mini Viva and PhD Proposal Sem 1 2012/2013, November 2012
- xx) Appointed as examiner/ chairperson for dessertation 1 presentation (MQT), Semester 2, Session 2011/2012, April 2012
- xxi) Appointed as examiner for mini viva dissertation MQT, Semester 1, Session 2011/2012, January 2012
- xxii) Appointed as examiner for mini viva dissertation MQT, Semester 1, Session 2011/2012, January 2012
- xxiii) Appointed as examiner for mini viva dissertation MQT, Semester 2, Session 2011/2012, July 2012
- xxiv) Appointed as examiner for Fast track PhD Biosains Proposal presentation, Semester 2 Session 2011/2012, May 2012
- xxv) Appointed as examiner for mini viva dissertation MQT, Semester 1, Session 2011/2012, January 2012
- xxvi) Appoinment as examiner/ chairperson for Master Biosciences, First Year Assessment Presentation, Semester 1, 2012/2013, November 2012
- xxvii) Appointed as examiner for MQT1280/MQT1290 proposal presentation Pembentangan, Fakulti Biosains dan Biokejuruteraan, October 2011
- xxviii) Appointed as examiner for PHD Student Fellowship Presentation FBB, May 2011
- xxix) Appointed as examiner for first stage presentation for MSc/ PhD (Biosciences), March 2010

### PhD EXTERNAL EXAMINER

Nil

### MSc EXTERNAL EXAMINER

- i) Maridah Mohd Amin, Extrication of Biodiesel Feedstock from Early Stage of Food Waste Liquefaction, University of Malaya, 2015

### MSc INTERNAL EXAMINER

- i) Zulkiflizan Bin Jmaludin , Optimization of Sugar Production from Oil Palm Trunk by *Aspergillus fumigatus* SK1 in Solid State Fermentation, November 2016.
- ii) Hong Chan Fook, Biodegradation of Oil Palm Bunch by Locally Isolated Fungal Strains, August 2013

### PhD INTERNAL EXAMINER

- i) Ang Siow Kuang, Cellulases and xylanase production by *Aspergillus fumigatus* SK1 through solid state fermentation for ethanol fermentation, 2015
- ii) Ummirul Mukminin Bin Kahar, Characterization of Type 1 Pullulanase and Alpha Amylase from Locally Isolated *Anoxybacillus* Species, 2018.

### PUBLICATIONS AND PAPER PRESENTED

#### THESIS

- i) Nor Azimah Mohd Zain, Modification of PVA-Alginate Immobilization Matrix to Immobilize Invertase, Ph.D. Thesis, Universiti Teknologi Malaysia, (2009).

#### BOOK CHAPTER

- i) N. B. Hasan, W. Y. Tan, **N. A. M. Zain**, Enzymatic Hydrolysis of Waste Cooking Palm Oil by PVA-Alginate-Sulfate Immobilized Lipase, Sustainable Water Treatment: Innovative Technologies, Edited by Z. Z. Noor and N. S. M. Sabil, CRC Press, 2017, Pages 3-23.
- ii) Q. A. Kamal and **N. A. M. Zain**, Bioremediation of Palm Oil Mill Effluent for Itaconic Acid Production by *Aspergillus Terreus* NRRL 1960 Immobilized in PVA-Alginate-Sulfate Beads, Sustainable Water Treatment: Innovative Technologies, Edited by Z. Z. Noor and N. S. M. Sabil, CRC Press, 2017, Pages 25-43.
- iii) S. N. Aziman and **N. A. M. Zain**, Fungus Chemical Pretreatment of Solid Pineapple Waste, Biotechnology Development in Agriculture, Industry and Health: Advance Conversion Technologies for Lignocellulosic Biomass Vol. 3, Edited by A. Idris, U. Sedran, Z. A. Zakaria, Penerbit UTM Press, 2014, Pages 47-65.

## PUBLICATIONS

H-index 6

### Journal

- i) Abdulkarim Ali Deba; **Nor Azimah Mohd Zain**; Madihah Salleh. Recent Trend in Residual Palm Oil Recovery in a Solid State Fermentation. *Jurnal Teknologi*. 2018; 80 (3): 9-21. (Penerbit UTM, Indexed in Scopus)
- ii) Abdulkarim Ali Deba; Nor Azimah Mohd Zain; Madihah Salleh. Biosugar Production from Oil Palm Mesocarp Fiber (OPMF) using Viscozyme. *ARPN Journal of Engineering and Applied Sciences*. 2017; 12 (21): 6225-6237. (Asian Research Publishing Network, Indexed in Scopus).
- iii) Nor Atikah Husna Ahmad Nasir; Ng Zhi Hang; **Nor Azimah Mohd Zain**; Mohd Suardi Suhaimi. Statistical Analysis Of Immobilized Phanerochaete Chrysosporium In PVA-Alginate-Sulfate Beads For Textile Wastewater Treatment. *Desalination and Water Treatment*. 2017; 67: 381-388. (Taylor & Francis, Indexed in WoS, Q2, Impact Factor: 1.631).
- iv) Laila Muftah Zargoun; **Nor Azimah Mohd Zain**; Shafinaz Shahir. Characterization of Magnetotactic Betaproteobacterium from Skudai River, Malaysia. *Indian Journal of Science and Technology*. 2016; 9 (47): 1-9. (Indian Society for Education and Environment & Informatics Publishing Limited, Indexed in Scopus).
- v) **Nor Azimah Mohd Zain**; Laila Muftah Zargoun; Nur Fatimah Elias; Mohd Firdaus Abdul Wahab; Mohd Suardi Suhaimi. Isolation And Characterization Of Polyhydroxyalkanoates (PHAs) Producing Bacteria From Brackish Stream. *Jurnal Teknologi* ; 78(7) 75-81. (Penerbit UTM, Indexed in Scopus).
- vi) Laila Muftah Zargoun; **Nor Azimah Mohd Zain**; Shafinaz Shahir. Isolation and characterization polyhydrobutyrate (PHB) producing bacteria from waste cooking oil using pomegranate molasses as carbon source. *Jurnal Teknologi*. 2015; 77(31): 85-93. (Penerbit UTM, Indexed in Scopus).
- vii) Nor Badzilah; Tan Wei Yie; **Nor Azimah Mohd Zain**; Mohd Suardi Suhaimi. Immobilization of *Candida rugosa* lipase in PVA-Alginate-sulfate beads for waste cooking oil treatment. *Jurnal Teknologi*. 2015; 74(1): 221-228. (Penerbit UTM, Indexed in Scopus).
- viii) Chee Loong Teo; Ani Idris; **Nor Azimah Mohd Zain**; Mohamad Taisir Synergistic effect of optimizing light-emitting diode illumination quality and intensity to manipulate composition of fatty acid methyl esters from *Nannochloropsis* sp. *Bioresource Technology*. 2014; 173: 284-290. (Elsevier, Indexed in WoS, Q1, Impact Factor: 4.494)
- ix) Darshini Chandera Seker; **Nor Azimah Mohd Zain**. Response surface optimization of glucose production from liquid pineapple waste using immobilized invertase in PVA-alginate-sulfate beads. *Separation and Purification Technology*. 2014; 133: 48-54. (Elsevier, Indexed in WoS, Q1, Impact Factor: 3.091)

- x) Chee Loong Teo; Haryati Jamaluddin; **Nor Azimah Mohd Zain**; Ani Idris. Biodiesel production via lipase catalysed transesterification of microalgae lipids from *Tetraselmis* sp. *Renewable Energy*. 2014; 68: 1-5. (Elsevier, Indexed in WoS, Q1, Impact Factor: 3.476)
- xi) Alireza Zarei; Nor Aishah Saidina Amin; Amin Talebian-Kiakalaieh; **Nor Azimah Mohd Zain**. Immobilized lipase-catalyzed transesterification of *Jatropha curcas* oil: Optimization and modelling. *Journal of the Taiwan Institute of Chemical Engineers*. 2014; 45(2): 444-451. (Elsevier, Indexed in WoS, Q1, Impact Factor: 3.000)
- xii) Ani Idris; Mohd Suardi Suhaimi; **Nor Azimah Mohd Zain**; Roslina Rashid; Norasikin Othman. Discoloration of aqueous textile dyes solution by *Phanerochaete chrysosporium* immobilized in modified PVA matrix. *Desalination and Water Treatment*. 2014; 52(34-36); 6694-6702. (Taylor & Francis, Indexed in WoS, Q3, Impact Factor: 1.173).
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