



CURRICULUM VITAE

A. PERSONAL PARTICULARS

Name:	Dr. Nik Azimatolakma Binti Awang
Nationality:	Malaysian
Age:	35
Current Position:	Lecturer, School of Civil Engineering, Universiti Sains Malaysia (USM)
Field of Specialization:	Environmental Engineering (Biological wastewater treatment, Renewable energy, Solid waste treatment)
Researcher profile:	<ul style="list-style-type: none">• Researcher ID: C-3318-2018, Total citation 36, h-Index 3, Number of publication: 7.• Scopus ID: 57031660800, Total citation 32, h-Index 3, Number of publication: 6.• ORCID ID: 0000-0001-7654-247X• Google Scholar: https://scholar.google.com/citations?user=-Y5beg8AAAAJ&hl=en&oi=ao <p style="text-align: right;"><i>(All as of 19 June 2020)</i></p>
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B. ACADEMIC QUALIFICATION

1. Doctor of Philosophy (Environmental Engineering) University of Malaya, Malaysia (2017)
2. Master of Science (Civil Engineering) Universiti Sains Malaysia, Malaysia (2011)
3. Bachelor of Engineering (HONOURS) (Civil Engineering) Universiti Sains Malaysia, Malaysia (2008)

C. RESEARCH GRANTS

<i>Principal Investigator</i>
<ol style="list-style-type: none">1. Fundamental Research Grant Scheme (FRGS), Ministry of Education Malaysia. Correlations Between OPF Pre-treatment Using White Rot Fungi and Methane Generation in Temperature-Phased AD. RM 103,398.00, 1/1/2019-31/12/2021.2. Research University Incentive (RUI) Grant, Universiti Sains Malaysia. Evaluation of Leachate Treatment using Aerobic Granular Sludge Technology. RM 88,100.00, 1/5/2018-31/10/2020.3. Short Term Grant, Universiti Sains Malaysia. Treatment of Landfill Leachate using Aerobic Granular Sludge (AGS) Technology, 2018. RM 35,750.00.
<i>Member</i>
<ol style="list-style-type: none">1. Industry Grant, Institut Penyelidikan Hidraulik Kebangsaan Malaysia (NAHRIM). NAHRIM Environmental Sensor System (NUESS) Untuk Pemantauan Kualiti Air. RM 268, 000.00, May 2020.2. Prototype Research Grant Scheme (PRGS), Ministry of Education Malaysia. Up scaling the Compound Parabolic Collecting Reactor in treating pharmaceutical wastewater using Solar Photocatalysis Process. RM 182,450.00, 1/8/2019-31/7/2021.3. Fundamental Research Grant Scheme (FRGS), Ministry of Education Malaysia. Role of Active Coagulant Agent From Fruit Wastes in Enhancing Destabilisation of Colloidal Particles in Wastewater. RM 106,700.00, 1/9/2019-31/8/2021.

D. POSTGRADUATE

<i>Under Supervision</i>
<ol style="list-style-type: none">1. NUR AIN BINTI HAMIRUDDIN (P-WD0027/19(R)). Evaluation of Leachate Treatment by using Aerobic Granular Sludge (AGS) Technology for Biogas Production, Ph.D (Main Supervisor)2. FATIN FARHANA BINTI KAMARZAMAN. Sludge from Recycled Paper Mill as a Potential Media in the Biological Treatment of Malodour, M.Sc (Main Supervisor)
<i>Graduated</i>
<ol style="list-style-type: none">4. SITI NAJWA BINTI ABDULLAH (P-WM0014/18). Physicochemical Properties of Aerobic

Granular Sludge Formation During Start-Up Phase, **M.Sc by Mixed-Mode**, 2019 (**Main Supervisor**)

E. UNDERGRADUATE

Under Supervision

1. MUHAMMAD IBRAHIM BIN NOOR ALSHURDIN (133419). Influence of co-digestion of oil palm fronds (OPF) with white rot fungi (WRF) and sludge from sewage treatment plant on aerobic composting process, 2020 **Main Supervisor**

Graduated

1. MOHD IKRAM BIN SHARIFF (133413). Physicochemical Properties of Aerobic Granular Sludge Formation During Star-Up Phase, 2019 **Main Supervisor**
2. NURUL NAJIHAH BINTI AHMAD (128896). Measurement of Oxygen Uptake Rate (OUR) During Start-Up Phase of Aerobic Granular Sludge (AGS) Formation in Leachate Treatment, 2019 **Main Supervisor**

F. PUBLICATIONS

JOURNAL:

Last update: 7 May 2020

1. Hamiruddin N.A., Awang N.A. (2020) Characterization of Aerobic Granular Sludge (AGS) Formation During Start-Up Phase for Leachate Treatment. In: Mohamed Nazri F. (eds) Proceedings of AICCE'19. AICCE 2019. *Lecture Notes in Civil Engineering*, Vol 53. Springer, Cham (Scopus index journal)
https://doi.org/10.1007/978-3-030-32816-0_117
2. Hamiruddin, N.A., **Awang, N.A.** (2019) The Performance of Extracellular Polymeric Substance (EPS) on Stability of Aerobic Granular Sludge (AGS). *Civil and Environmental Engineering Reports*, 29(3):60-69. (ESCI index journal)
DOI: 10.2478/ceer-2019-0024
3. **Awang, N.A.**, Shaaban, M.G., Weng, L.C., Wei, B.C. (2019) Formation of AGS in an airlift reactor with divided funnels under combined selective pressure. *International Journal of Integrated Engineering, IJIE (Special Issue: Sustainability in Environmental Engineering)*, 11(2): 99-111. (ESCI index journal).
<https://doi.org/10.30880/ijie.2019.11.01.011>
4. **Awang, N.A.**, & Shaaban, M.G. (2018) Effect of variable and low organic loading rate on formation of aerobic granular sludge in sewage treatment . *Journal of Advanced Research in Materials Science*, 48(1):1-10. (Index in Google Scholar).
http://www.akademiabaru.com/doc/ARMSV48_N1_P1_10.pdf
5. **Awang, N.A.**, Shaaban, M.G., Weng, L.C., Wei, B.C. (2017) Characterization of aerobic granular sludge develop under varibale and low organic loading rate. *Sains Malaysiana*, 46: 2497-2506 (Q3, ISI Index Journal).
<http://dx.doi.org/10.17576/jsm-2017-4612-27>

6. **Awang, N.A.**, & Shaaban, M.G. (2016) Effect of reactor height/diameter ratio and organic loading rate on formation of aerobic granular sludge in sewage treatment. *International Biodeterioration & Biodegradation*, 112:1-11. (Q1, ISI Index Journal). <http://dx.doi.org/10.1016/j.ibiod.2016.04.028>
7. **Awang, N.A.**, & Shaaban, M.G. (2015). Impact of height to diameter (H/D) ratio on aerobic granular sludge (AGS) formation in sewage treatment. *Jurnal Teknologi (Sciences & Engineering)*, 77:32, 95-103. (Scopus index journal). <https://doi.org/10.11113/jt.v77.6990>
8. **Awang, N.A.**, Aziz, H.A., Bashir, M.J.K., Umar, M. (2012). Comparative removal of suspended solids from landfill leachate by *Hibiscus rosa-sinensis* leaf extract and alum. *Desalination and Water Treatment*, 51:2005-2013. (Q2, ISI Index Journal). doi: 10.1080/19443994.2012.735813
9. **Awang, N.A.**, & Aziz, H.A. (2012). *Hibiscus rosa-sinensis* leaf extract as coagulant aid in leachate treatment. *Applied Water Sciences*, 2:293-298. DOI 10.1007/s13201-012-0049-y

PROCEEDING:

Last update: 7 May 2020

1. Hamiruddin, N.A. & Awang, N.A. Characterization of Aerobic Granular Sludge (AGS) Formation During Start-Up Phase for Leachate Treatment. ***AWAM International Conference on Civil Engineering 2019***. 21 – 22 August 2019 Penang, Malaysia.
2. Awang, N.A., Shaaban, M.G. & Weng, L.C. The role of extracellular polymeric substance (EPS) on aerobic granular sludge (AGS) stability. ***The 11th Regional Conference on Environmental Engineering 2018***. 27 – 28 September 2018 Phnom Penh, Cambodia.
3. Awang, N.A. & Shaaban, M.G. Effect of variable and low organic loading rate on formation of aerobic granular sludge in sewage treatment. ***5th International Conference on Applied Sciences and Engineering***. 7 – 8 April 2018 Cameron Highland, Malaysia.
4. Shaaban, M.G., Malek, M.I.A., Awang, N.A., & Shawkat, N. Microbial population and performance in SBR adapted for treating sewage, MSW leachate and petroleum effluents. ***5th Comprehensive symposium on Asian core program integrated watershed management***. November 2015, Kyoto University, Japan.
5. Awang, N.A. & Shaaban, M.G. River sustainability from domestic sewage pollution using Aerobic Granular Sludge (AGS) technology. ***Integrated Watershed Management Comprehensive Symposium IV***. 3 – 4 December 2014, UTM Skudai, Johor, Malaysia.
6. Awang, N.A. & Shaaban, M.G. Effect of H/D ratio on development of Aerobic Granular Sludge (AGS) in sewage treatment. ***The 6th International Conference on Postgraduate education***. 17 – 18 December 2014, UTeM and UTHM, Melaka, Malaysia.
7. Awang, N.A. & Aziz, H.A. *Hibiscus rosa sinensis* Leaves Extract as Coagulant in Wastewater Treatment. ***Persidangan Kebangsaan Kejuruteraan Awam '09***. 27-29 October 2009, Kuala Lumpur, Malaysia.

G. ASSESSOR/EXAMINER

<i>Examiners for Thesis</i>
1. NURUL NADIAH BINTI MOHD AZME (P-WM0011/16(R)). Utilization of Sugarcane Pressmud as a Natural Absorbent for Heavy Metal Removal in Leachate Treatment. M.Sc. thesis, School of Civil Engineering, USM, 2020.
<i>Academic or Profesional Journals/Assessor of Working Papers</i>
Has reviewed papers for the following journal: 1. International Journal of Integrated Engineering 2. Journal of Materials Research and Technology 3. Materials Today: Proceedings Manuscript Draft 4. Biocatalysis and Agricultural Biotechnology 5. 3Biotech 6. Zeitschrift für Physikalische Chemie
<i>Last update: 2 Feb 2020</i>