



CURRICULUM VITAE

A. **PERSONAL DETAILS**

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<https://prisma.uitm.edu.my/prisma/?doit=DirectoryStafByIdDetail&staffid=Vmtaa2QxVnRWa1ZXVkZaT1IYcFdIRIZXVWs1TIZUbFNVRIF3UFE9PQ&dsff=Vmtaa2QxVnRWa1ZXVkZaT1IYcFdIRIZXVWs1TIZUbFNVRIF3UFE9PQ>



<https://www-scopus-com.ezaccess.library.uitm.edu.my/authid/detail.uri?authorId=26655745800>

B. **ACADEMIC QUALIFICATION**

Ph.D in Electrochemical Engineering (Renewable energy)(2018)

Imperial College London, United Kingdom

MScEng Environmental Engineering (2009)

Universiti Malaya (UM), Malaysia

BEng (Hons) Environmental Engineering (2003)

Universiti Malaya (UM), Malaysia

C. **PUBLICATION**

Journal

1. **Jamil, Z.**, Ruiz-Trejo, E., Brandon, N.P. (2017). Nickel Electrodeposition on Silver for the Development of Solid Oxide Fuel Cell Anodes and Catalytic Membranes, *J. Electrochem. Soc.* 164, D210–D217. doi:10.1149/2.1081704jes. (Scopus & ISI Indexed, IF: 3.582, Q1)
2. **Jamil, Z.**, Ruiz-Trejo, E., Boldrin, P., Brandon, N.P. (2016). Anode fabrication for solid oxide fuel cells: Electroless and electrodeposition of nickel and silver into doped ceria scaffolds, *Int. J. Hydrogen Energy.* 41, 9627–9637. doi:10.1016/j.ijhydene.2016.04.061. (Scopus & ISI Indexed, IF: 3.259, Q1)
3. **Jamil, Z.**, Yunus, N.A.M., Annuar, M.S.M., Ibrahim, S. (2013) Anaerobic co-digestion of food waste for bohydrogen production. *IEEE Business Engineering and Industrial Application Colloquium (BEIAC).* 284 – 288. (Scopus)
4. **Jamil, Z.**, Annuar, M.S.M., Ibrahim, S., Vikineswary, S. (2012). Kinetic modeling of batch photofermentation hydrogen gas production by *Rhodospseudomonas palustris* PBUM001. *J. Renewable and Sustainable Energy* 4, 043105 <http://dx.doi.org/10.1063/1.4737131> (Scopus & ISI Indexed, IF: 1.214, Q3)
5. **Jamil, Z.**, Annuar, M.S.M., Ibrahim, S., Vikineswary, S. (2009). Optimization of phototrophic hydrogen production by *Rhodospseudomonas palustris* PBUM001 via statistical experimental design. *Int. J Hydrogen Energy.* 34. 7502-7512. (Scopus & ISI Indexed, IF: 3.582, Q1)

Conference and Proceedings

1. Conference of Science Technology and Social Science. 3 – 4 November 2018. Penang, Malaysia. **Jamil, Z.** Ruiz Trejo, E, Brandon, NP. (2018). Electrochemical Performance of

- Electrodeposited Ni/GDC Anodes for Solid Oxide Fuel Cells. International Conference of Science Technology and Social Science. 3-4 November 2018. Penang, Malaysia.
2. Jamil, Z. Ruiz Trejo, E, Brandon, NP. (2016). Development and characterisation of electroless-electrodeposition SOFC anodes with engineered microstructures. 12th European SOFC & SOE Forum 2016. 5-8 July 2016. Lucerne, Switzerland (p.B0310)
 3. Jamil, Z. Ruiz Trejo, E, Puolamaa, ME, Brandon, NP. (2015). Electrodeposition on different silver coated substrates for fuel cell and gas separation applications. H2FC SUPERGEN 2015 Research Conference. 14 – 16 Dec 2015. Bath, United Kingdom.
 4. Jamil, Z. Ruiz Trejo, E, Boldrin, P, Brandon, NP. (2014) Performance of GDC-Electrodeposited Ni Anodes for Solid Oxide Fuel Cells. 15-17 December 2014. Birmingham, United Kingdom.
 5. Jamil, Z. Ruiz Trejo, E, Boldrin, P, Brandon, NP. (2014) Novel Anode Fabrication of Ni/Ag/GDC for Solid Oxide Fuel Cells. 11th European SOFC & SOE Forum 2014. 1-4 July 2014. Lucerne, Switzerland (p.30)
 6. Azwa, M.Y.N., Jamil, Z., Annuar, M.S.M., Ibrahim, S (2013) Anaerobic co-digestion of food waste for biohydrogen production. IEEE Business Engineering and Industrial Applications Colloquium (BEIAC). 7-9 April 2013, Langkawi, Kedah.
 7. Jamil, Z., Den, A.M., Rosli, S.H., Ismail, S. F., and Kamarudin, A.H. (2012). Evaluation Of Commercial Synthetic Polymers As Flocculant Aids For Turbidity Removal Of Surface Water Via Statistical Experimental Design. International Conference of Science Technology & Social Science (ICSTSS 2012). 20-22 Dec 2012. Vistana Hotel, Kuantan, Pahang.
 8. Azwa, M.Y.N., Jamil, Z., Annuar, M.S.M., Ibrahim, S. (2012). Food Waste as a Renewable Resource for Biohydrogen Production. International Conference of Science Technology & Social Science (ICSTSS 2012). 20-22 Dec 2012. Vistana Hotel, Kuantan, Pahang.
 9. Omar, W.S.A., Jamil, Z., Isa, N.N.M., Abdullah, N.S., and Ismail, W.H. W. (2010) Preliminary Study on Biogas Production from Organic Kitchen Waste Degradation. KONAKA 2010. UiTM Pahang
 - Jamil, Z. *et. al.* (2010). A Diagnostic Program for Student Improvement: SIMPLE Implementation in Faculty of Civil Engineering. KONAKA 2010, UiTM Pahang. (2nd place Best Poster Presentation)
 10. Yaacob, A.A. *et. al.* (2010). Risiko kemalangan Jalan Raya di Sepanjang Jalan-jalan Utama Menuju UiTM Pahang Kampus Jengka. (2010). KONAKA 2010, UiTM Pahang
 11. Bachok, F., Jamil, Z., Yaacob, A.A., Abidin, Z.A. (2010) Establishment of Monthly Index Forewarning for Erosion and Rainfall Induced Landslide. Proceedings of Science & Technology, 1-2 June 2010, M.S. Garden Hotel, Pahang, Malaysia, p.561.
 12. Jamil, Z., Ibrahim, S., Vikineswary, S., Annuar, M.S.M. (2007). Optimization of hydrogen production by *Rhodospseudomonas palustris* PBUM001 grown in palm oil mill effluent. Proceedings of the International Hydrogen Energy: Congress & Exhibition, 13-15 July 2007, Istanbul, Turkey. p. 64.

13. Vikineswary, S., Jamil, Z., Wei, S.C., Chung, C.W., Ibrahim, S., Lin, T.K, Annuar, M.S.M., Hassan, M.A. (2007). Biohydrogen production – The Malaysian scenario. Proceedings of the International Hydrogen Energy: Congress & Exhibition 13-15 July 2007, Istanbul, Turkey. p. 87.

D. Research Funding

1. Food Waste as A Renewable Resources of Biohydrogen Production (FRGS), MYR 49, 190.00, from year 2010-2013. (Leader)
2. A proposal of Monitoring Analysis and Treatment of Rainwater Harvested for Drinking Water Purpose (Dana UiTM), MYR 5,200.00, from year 2012-2013. (Team Member)
3. Polymeric (polyelectrolyte) flocculant Aids in turbidity removal from surface water (Dana UiTM), MYR 5000.00, from year 2010-2011. (Leader).
4. Optimization of biogas production from food waste degradation (Dana UiTM) MYR 15,000 (Team member)

E. Consultancy Works/ Professional Services

F. Area of Interest

- Fuel Cell
- Biohydrogen
- Biowastes
- Wastewater treatment
- Renewable energy