



CURRICULUM VITAE



Diyana Jamaludin

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Education

1. PhD. Agricultural Mechanisation and Automation Engineering, 2016, Universiti Putra Malaysia
2. M.Sc. Bioenvironmental Engineering, 2010, Universiti Putra Malaysia
3. B. Eng. Biological & Agricultural Engineering, 2005, Universiti Putra Malaysia.

Areas of Interest

1. Controlled Environment Agriculture
2. Agricultural and Biosystems Instrumentation

Professional Qualification/ Membership/ Affiliation

1. Member, Malaysian Society of Agricultural Engineers (MSAE)
2. Graduate Member, Board of Engineers Malaysia (BEM)
3. Member, American Society of Agricultural and Biological Engineers (ASABE)
4. Member, Institute of Engineers Malaysia (IEM)
5. Member, International Society of Horticultural Science (ISHS)

Appointments

Position	Duration
1. Senior Lecturer, Department of Biological and Agricultural Engineering, Faculty of Engineering, UPM	9 Jun 2016 2016 – to date
2. Tutor, Department of Biological and Agricultural Engineering, Faculty of Engineering, UPM	7 November 2005– 8 Jun 2016
3. Research Assistant, Department of Plant Biology and Pathology, Rutgers University, New Jersey USA	October 2006– to April 2007

Publications

Journals (30 recent journals)

Diyana Jamaludin, Samsuzana Abd Aziz, Desa Ahmad, Hawa ZE Jaafar. (2015). Impedance Analysis of *Labisia pumila* Plant Water Status. *Journal of Information Processing in Agriculture*, 2: 161-168. ISSN: 2214-3173. (Indexed)

D. Jamaludin, S. Abd Aziz, N.A. Ibrahim. (2014). Dielectric Based Sensing for Banana Ripeness Assessment. *International Journal of Environmental Science and Development*, 5(3):286-293. ISSN:2010-0264 (Indexed by CAS, CABI, DOAJ, Crossref, ProQuest)

Diyana Jamaludin, Desa Ahmad, Rezuwan Kamaruddin, Hawa ZE Jaafar. (2014). Microclimate Inside a Tropical Greenhouse Equipped with Evaporative Cooling Pads. *Pertanika Journal of Science and Technology*, 2(1): 243-259. (Indexed by Scopus)



Diyana Jamaludin, Samsuzana Abd Aziz, Desa Ahmad, Hawa ZE Jaafar. (2016). Evaluation of Total Flavonoid Content of *Labisia pumila* Leaves Based on Impedance Measurement. *Acta Horticulturae*. ISHS. Scopus Index. Q3. (Accepted)

Diyana Jamaludin, Samsuzana Abd Aziz, Desa Ahmad, Hawa ZE Jaafar. (2016). Phytochemical Content Assessment of *Labisia pumila* Leaves Extract Using Dielectric Measurement. *Applied Engineering in Agriculture*. ASABE. Scopus Index. Q1. (Submitted)

Conference Proceedings

Diyana Jamaludin, Samsuzana Abd Aziz, Desa Ahmad, Hawa ZE Jaafar. (2014). Proceedings from International Conference of Agricultural Engineering (AgEng): *Application of Impedance Spectroscopy Sensing for Leaf Water Status*, Zurich.

D.Jamaludin, S. Abd Aziz, D. Ahmad, H.ZE Jaafar. (2014). Proceedings from National Conference on Agricultural and Food Mechanization (NCAFM): *Impedance Characteristics of Labisia pumila Plant Water Stress*, Kota Kinabalu Sabah.

Diyana J., Desa, A., Jaafar, H.Z.E., Rezuwan, K., Amin, M.S.M. (2008). Proceedings of the 19th Malaysian Society of Plant Physiology Conference (MSPPC, 2008): Validation of a Simple Temperature Model for Tropical Greenhouse with Evaporative Cooling Pads.pp61-68, Penang.

Diyana J., Rezuwan K., Ahmad, D. Illias, M.K., Hawa, J., Amin, M.S.M. (2008). Proceedings from National Conference on Agricultural and Food Mechanization (NCAFM): *Evaporative Pads and Exhaust Fans Cooling System for Temperate Crop Production in a Tropical Greenhouse*,pp 104-108. Melaka.

Paper Presented

Diyana J., Desa, A., Jaafar, H.Z.E., Rezuwan, K., Amin, M.S.M. (2008). Proceedings of the 19th Malaysian Society of Plant Physiology Conference (MSPPC, 2008): Validation of a Simple Temperature Model for Tropical Greenhouse with Evaporative Cooling Pads. Penang. 18-20 November 2008.

Diyana J., Desa, A., Hawa, J., Rezuwan,K. (2011). Effects of Microclimate on Cabbage Yield inside an Evaporative Tropical Greenhouse. 2011 ASABE Annual International Meeting. Louisville Kentucky. 7-11 August 2011.

D. Jamaludin, S. Abd Aziz, N.A. Ibrahim. (2014). Dielectric Based Sensing for Banana Ripeness Assessment. 3rd International Conference on Environment Science and Biotechnology (ICESBS 2013). Kuala Lumpur. 29-30 December 2013.

Diyana Jamaludin, Samsuzana Abd Aziz, Desa Ahmad, Hawa ZE Jaafar. (2014). Application of Impedance Spectroscopy Sensing for Leaf Water Status International Conference of Agricultural Engineering (AgEng). Zurich. 6-10 July 2014.

D.Jamaludin, S. Abd Aziz, D. Ahmad, H.ZE Jaafar. (2014). Impedance Characteristics of *Labisia pumila* Plant Water Stress. National Conference on Agricultural and Food Mechanization (NCAFM): Kota Kinabalu Sabah. 20-22 May 2014.

Diyana Jamaludin, Samsuzana Abd Aziz, Desa Ahmad, Hawa ZE Jaafar. (2014). Impedance Analysis of Physiological Parameters of Plants (*Labisia pumila*) Water Stress. 2nd International Conference on Agricultural and Food Engineering CAFEi2014, Kuala Lumpur. 1-3 December 2014.

D. Jamaludin, D. Ahmad, S. Abd Aziz, H.ZE. Jaafar. (2015).Non-Destructive Measurement of Leaf Water Potential Using Impedance Spectroscopy. The 7th International Conference on Sustainable Agriculture for Food, Energy and Industry in Regional and Global Context, ICSAFEI2015. Selangor. 25-27 August 2015.

Diyana Jamaludin, Samsuzana Abd Aziz, Desa Ahmad, Hawa ZE Jaafar. (2014). Evaluation of Total Flavonoid Content of *Labisia pumila* Leaves Based on Impedance Measurement. 3rd International Conference on Agricultural and Food Engineering CAFEi2014, Kuala Lumpur. 23-25 August 2014.





Awards / Recognition

No	Name of awards	Title	Award Authority	Award Type	Year
1.	Best Award Classed A	'Banana Ripeness Sensor'	International Engineering Invention and Innovation Exhibition (i-ENVEX)	International	2014
2.	Gold Medal	Banana Ripeness Sensor	International Engineering Invention and Innovation Exhibition (i-ENVEX)	International	2014
3.	Gold Medal	Dielectric Based Measurement of Agricultural Materials	International Engineering Invention and Innovation Exhibition (i-ENVEX)	International	2013
4.	Awards of Excellence	Awards of Excellence UPM 2012	Universiti Putra Malaysia	University	2012
4.	Best Final Year Project	Development of Action Maps for Fertilizer Application at Paddy Field	Faculty of Engineering & FELCRA	Faculty	2005

Professional Services /Consultation

No	Year	Title	Authority
1.	2016	'Assessment and evaluation on greenhouse structure and operation at Rimbulan Kaseh Project (Pahang & Malacca)	Prime Minister's Office (ICU)



