

RESEARCHER'S BACKGROUND

Name	Dr. Juhana Jaafar
Faculty	Faculty of Chemical and Energy Engineering
Research Interests	<ol style="list-style-type: none"> 1. Fuel cells 2. Membrane technology 3. Polymer-inorganic 4. Electrospinning 5. Water and Wastewater Treatment
Research Entity	Advanced Membrane Technology Research Centre (AMTEC)
UTM Administrative Post(if any)	<ol style="list-style-type: none"> 1. Strategic Initiative Manager, Advanced Membrane Technology Research Centre (AMTEC), 2016-2018 2. Secretary, Advanced Membrane Technology Research Centre (AMTEC), 2013-2015 3. Treasurer, Jawatankuasa Kebajikan & Rekreasi Staf (JAKRIS), Faculty of Petroleum & Renewable Energy Engineering, 2012 - 2015 4. Research Officer Membrane Research Unit, UTM, 2004 – 2006
Professional Post(if any)	<ol style="list-style-type: none"> 1. Invited Co-supervisor, PhD student (Muhammad Purwanto) of Institut Teknologi Sepuluh Nopember (ITS), Surabaya, Indonesia, 6 October-current. 2. Invited Co-supervisor, Master student (Shabrina Adani Putri) of Institut Teknologi Sepuluh Nopember (ITS), Surabaya, Indonesia, 21 November-current. 3. Invited reviewer, International Journal of Hydrogen Energy, Jan 2016. 4. Invited reviewer, Journal of Water Processing Engineering, March 2016. 5. Editorial Board Member (World Journal of Textile Engineering and Technology-WJTET), July 2015-current 6. Internal Panel of GUP Tier 1 proposal, 17-20 March 2014. 7. Committee of Ad-hoc: Annual Book Report of FPREE 2014, 25 March 2014. 8. Invited reviewer, Journal of Membrane Science, JMS14116, January 2014. 9. Invited reviewer, Journal of Membrane Science, JMS-14-1624, October 2014. 10. Invited reviewer, Journal of Membrane Science, JMS141627, October 2014. 11. Guess Editor: Special Issue of Jurnal Teknologi (Membrane Technology & Water Separation Processes), December 2013. Vol 65, No 4. 12. Guess Editor: Special Issue of Jurnal Teknologi (Recent Research in Engineering), October 2013 Vol 69, No 3Special Issue on Recent Research in Engineering Vol. 2. 13. Guess Editor: Special Issue of Jurnal Teknologi Special Issue on Recent Research in Engineering Vol. 1,Vol 67, No 3. 14. Editor, FutureTech: An International Journal of science and Technology (FIJST), 2013-current. 15. Invited Reviewer, Polymer Engineering & Science Journal, 2013. 16. Review Board, International Association of Scientific Innovation and Research (IASIR), 2013-current. 17. Guess Editor: Special Issue of Jurnal Teknologi (Sciences & Engineering) Special edition on Nanomaterials Technology Specialized

	Conference, No. 59 (Sciences & Engineering) Suppl (3), December 2012 18. Reviewer for Special Issue of Jurnal Teknologi (Sciences & Engineering) Special edition on Nanomaterials Technology Specialized Conference, No. 59 (Sciences & Engineering) Suppl (3), December 2012
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RESEARCH PROFILE

Publication	<ul style="list-style-type: none"> • Chapter-4 • Journal Article-50 • Conference Paper – 16 • Encyclopedia-1 • Invited Talk-1
Citation	271
H-index	9
Intellectual property rights	<ol style="list-style-type: none"> 1. Juhana Jaafar, Ahmad Fauzi Ismail, Mohd Hafiz Dzarfan Othman, Mukhlis A. Rahman, Mohd Noorul Anam Mohd Norddin, SPEEK-nanoclay Membrane: The Effective Fuel Separator, Malaysia Patent (PI2014701149). 2. Ahmad Fauzi Ismail, Juhana Jaafar, Azeman Mustafa, Mohd Hafiz Dzarfan Othman, A Novel (Sulfonated Poly (Ether Ether Ketone) SPEEK Membrane for Direct Methanol Fuel Cell, Malaysia Patent (PI 2007 2252). 3. Ahmad Fauzi Ismail, Mohd Hafiz Dzarfan Othman, Azeman Mustafa, Juhana Jaafar, SPEEK/BPO4 Composite Membranes for Direct Methanol Fuel Cell (DMFC), Patent Granted (MY143062-A).

RESEARCH SUPERVISION

Completed	MSc:9
Current	PhD:8 MSc:3

AWARDS & RECOGNITIONS

<p>Best Poster Award in 2nd International Conference on Desalination using Membrane Technology, 25-26 July 2015.</p> <p>Gold Medal and Special Jury Award-INATEX 2015: Photocatalytic membrane reactor, A. F. Ismail, G. P. Sean, Juhana Jaafar, , Mohd Hafiz Dzarfan Othman, Mukhlis A. Rahman, Sohaimi Abdullah, Ng. Be Cheer.</p> <p>Gold Medal-PECIPTA 2013, SPEEK-nanoclay Membrane: The Effective Fuel Separator. Juhana Jaafar, Mohd Noorul Anam Mohd. Norddin, Mohd Hafiz Dzarfan Othman, Mukhlis A. Rahman, Sohaimi Abdullah, Ng. Be Cheer.</p> <p>Best of the Best (category: Material, Manufacturing, Mechanical & Civil)-PECIPTA 2013, SPEEK-nanoclay Membrane: The Effective Fuel Separator. Juhana Jaafar, Mohd Noorul Anam Mohd. Norddin, Mohd Hafiz Dzarfan Othman, Mukhlis A. Rahman, Sohaimi Abdullah, Ng. Be Cheer.</p> <p>Most Distinguished Award-PECIPTA 2013, SPEEK-nanoclay Membrane: The Effective Fuel Separator. Juhana Jaafar, Mohd Noorul Anam Mohd. Norddin, Mohd Hafiz Dzarfan Othman, Mukhlis A. Rahman, Sohaimi Abdullah, Ng. Be Cheer.</p> <p>Gold Medal-INATEX 2012, SPEEK-nanoclay Membrane: The Effective Fuel Separator. Juhana Jaafar, Mohd Noorul Anam Mohd. Norddin, Mohd Hafiz Dzarfan Othman, Mukhlis A. Rahman, Sohaimi Abdullah, Ng. Be Cheer.</p> <p>Best Student Award, PhD Gas Engineering, 6 May 2012.</p> <p>Anugerah Penerbitan Citra Karisma, 2009 Member Materials and Manufacturing Research Alliance.</p>

Gold Medal-INATEX 2007, Novel Speek Membrane for Direct Methanol Fuel Cell, A. F. Ismail, J. Jaafar, A. Mustafa.
Gold Medal-MTE 2008, Novel SPEEK Membrane for Direct Methanol Fuel Cell. A. F. Ismail, J. Jaafar, A. Mustafa.
Best of the Best– MTE 2008, Novel SPEEK Membrane for Direct Methanol Fuel Cell. A. F. Ismail, J. Jaafar, A. Mustafa.
Double Gold Medal– BIS 2008, Novel Speek Membrane for Direct Methanol Fuel Cell. A. F. Ismail, J. Jaafar, A. Mustafa.
Gold Medal-BIS 2008, Novel Speek Membrane for Direct Methanol Fuel Cell. A. F. Ismail, J. Jaafar, A. Mustafa.
Best Research Group, Membrane Research Unit (MRU) – Hari Kualiti UTM 2007.

CONTACT

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