

RESEARCHER'S BACKGROUND

Name	Assoc. Prof. Dr. Mohd Hafiz Dzarfan Othman
Academic Position	Associate Professor
Faculty	Faculty of Chemical & Energy Engineering
Research Interests	<ol style="list-style-type: none"> 1. Fuel Cell 2. Membrane Technology 3. Ceramic Hollow Fibre
Research Entity	Advanced Membrane Technology Research Centre (AMTEC)
UTM Administrative Post (if any)	<ol style="list-style-type: none"> 1. Deputy Director, Advanced Membrane Technology Research Centre (AMTEC), Universiti Teknologi Malaysia. Jan 2015-Current. 2. Head of Renewable Energy Research Group. Feb 2017 – Current. 3. Post-doctoral fellow in Advanced Membrane Technology Research Centre (AMTEC). Oct 2014 – Sept 2015.
Professional Administration Post & Membership (if any)	<ol style="list-style-type: none"> 1. Secretary General, Malaysian Membrane Society (MyMembrane) 2. Member, Global Young Academy (GYA) 3. Member, Young Scientist Network, Academy of Science Malaysia (YSN-ASM) 4. Board of Engineering Malaysia (BEM) as Member since 2006 (Registration No: 50494R) 5. Institute of Engineers Malaysia (IEM) as Graduate Member since 2012 (Membership: G51258) 6. Institution of Chemical Engineers as Graduate Member since 2013 (Membership: 99961215) 7. American Chemical Society as Member since 2016 (Membership: 30985108) 8. Editor, EDUCATUM Journal of Science, Mathematics and Technology (EJSMT). 9. Editorial Board Member of Journal of Applied Membrane Science and Technology. 10. Editorial Board Member of Journal of Membrane Research and Science. 11. Guest Editor of Jurnal Teknologi Special Issue in Conjunction with National Congress on Membrane Technology (NATCOM) 2016 (Scopus-indexed Journal) 12. Editorial Board Member of Jurnal Teknologi (ISI-indexed Journal) 13. District Liaison Officer, Institut Inovasi Strategik Johor. 14. Lead Guest Editor, International Journal of Polymer Science (ISI-indexed Journal) 15. Editor-in-Chief of FCEE Annual Book 16. External Accessor, Master of Business Administration in Oil and Gas, Lincoln University College 17. Editor-in-Chief of FPREE Annual Book 18. Editor-in-Chief of Jurnal Teknologi Special Issue on Sustainable Membrane Technology for Energy, Water & Environment (Scopus-indexed Journal) 19. Editor of Jurnal Teknologi Special Issue on Recent Research in Engineering (Scopus-indexed Journal)

RESEARCH PROFILE

Indexed Publication	<p>Journal Papers- 95 Conferences- 68 Thesis- 3 Book - 1 Book Chapter- 6 Encyclopaedia- 3 Technical Report – 1</p>
Citation	622
H-index	14
Intellectual property rights	<ol style="list-style-type: none"> 1. Ahmad Fauzi Ismail, Mohd Hafiz Dzarfan Othman, Azeman Mustafa, Juhana Jaafar, SPEEK/BPO4 Composite Membranes for Direct Methanol Fuel Cell (DMFC), Malaysia Patent (Patent Granted: MY143062-A).

	<ol style="list-style-type: none"> 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 (Patent filing: PI 20072252). 3. 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 (Patent Filing: PI 2014701149). 4. Mohd Hafiz Dzarfan Othman, Siti Munira Jamil, Ahmad Fauzi Ismail, Juhana Jaafar, Mohd Hafiz Dzarfan Othman, Mukhlis A. Rahman, Mohd Sohaimi Abdullah, Ng Be Cheer, A Novel Low Sintered Cerium Gadolinium Oxide Electrolyte using Phase Inversion Technique for Solid Oxide Fuel Cell Applications (Patent Pending: IP/PT/2016/2251). 5. Mohd Hafiz Dzarfan Othman, Hazlini Dzinun, Ahmad Fauzi Ismail, Mohd Hafiz Puteh, Juhana Jaafar, Mohd Hafiz Dzarfan Othman, Mukhlis A. Rahman, Mohd Sohaimi Abdullah, Ng Be Cheer, Fabrication of Dual Layer Hollow Fibre Membranes for Photocatalytic Degradation (Patent Pending: IP/PT/2016/2320). 6. Mohd Hafiz Dzarfan Othman, Siti Khadijah Hubadillah, Juhana Jaafar, Mukhlis A. Rahman, Ahmad Fauzi Ismail, Mohd Suhaimi Abdullah, Ng Be Cheer, A novel low cost ceramic hollow fibre membrane (CHFM) from kaolin for oily wastewater separation (Patent Pending: IP/PT/2016/1350). 7. Juhana Jaafar, Ahmad Fauzi Ismail, Mohd Hafiz Dzarfan Othman, Mukhlis A. Rahman, Wan Norhayati Wan Salleh, Farhana Aziz, Norhaniza Yusof, Muhammad Taufiq Salleh, Wan Noor Ezianti Wan Mohd Noral Azman, Novel SPEEK/ENR Membrane for Direct Methanol Fuel Cell Applications (Patent Pending: IP/PT/2016/1876). 8. Juhana Jaafar, Ahmad Fauzi Ismail, Mohd Hafiz Dzarfan Othman, Mukhlis A. Rahman, Mohd Sohaimi Abdullah, Norhaniza Yusof, Farhana Aziz, A novel PVDF/e-TiO₂ nanocomposite membrane for organic pollutant decomposition in wastewater under UV Irradiation (Patent Pending: IP/PT/2016/1903). 9. Mohd Hafiz Dzarfan Othman, Siti Khadijah Hubadillah, Juhana Jaafar, Mukhlis A. Rahman, Ahmad Fauzi Ismail, Mohd Suhaimi Abdullah, Ng Be Cheer, A Novel Ceramic Hollow Fibre Membrane Derived From Waste Rice Husk Ash For Seawater Desalination Through Membrane Distillation System (Patent Pending: IP/PT/2017/0525).
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RESEARCH SUPERVISION

Completed	PhD: 5 MSc: 9 Undergraduate: 17
Current	PhD: 19 MSc: 9 Undergraduate: NA

AWARDS & RECOGNITIONS

<ol style="list-style-type: none"> 1. July 2017, Special Dean Award, Faculty's Staff Appreciation Day. 2. May 2017, University's Best Research Award, Citra Karisma UTM Quality Day 2017, Universiti Teknologi Malaysia. 3. May 2017, Indexed Journal Author Award, Citra Karisma UTM Quality Day 2017, Universiti Teknologi Malaysia. 4. May 2017, Asian Invention Excellence Award, 28th International Invention, Innovation & Technology Exhibition (ITEX 2017), K-Membrane: Smart Membrane For Oily-Wastewater Treatment. 5. May 2017, Gold Medal Award, 28th International Invention, Innovation & Technology Exhibition (ITEX 2017), K-Membrane: Smart Membrane For Oily-Wastewater Treatment. 6. April 2017, Malaysia Representative for 2017 Asia-Pacific Economy Cooperation (APEC) Science Prize for Innovation, Research and Education (ASPIRE Prize). 7. February 2017, Gold Medal Award, Malaysia Technology Expo (MTE) 2017, K-Membrane: Smart Membrane For Oily-Wastewater Treatment. 8. February 2017, Silver Medal Award, Malaysia Technology Expo (MTE) 2017, Novel Green Sugarcane Bagasse Waste Ash For Oily Wastewater Treatment. 9. Dec 2016, Award of Excellence in recognition of valuable contribution "Active Blended Learning Course", Universiti Teknologi Malaysia 10. October 2016, Finalist National Young Scientist Award 2016, in National Innovation Award 2016, Kuala Lumpur.
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11. October 2016, Best Invention Award, 18th Industrial Art and Technology Exhibition (INATEX 2016), Universiti Teknologi Malaysia, Hybrid Photocatalytic Dual-Layer Hollow Fibre Membranes For Wastewater Treatment.
12. October 2016, Gold Medal Award, 18th Industrial Art and Technology Exhibition (INATEX 2016), Universiti Teknologi Malaysia, Hybrid Photocatalytic Dual-Layer Hollow Fibre Membranes For Wastewater Treatment.
13. October 2016, Gold Medal Award, 18th Industrial Art and Technology Exhibition (INATEX 2016), Universiti Teknologi Malaysia, K-Membrane: Smart Membrane For Oily-Wastewater Treatment.
14. October 2016, Gold Medal Award, 18th Industrial Art and Technology Exhibition (INATEX 2016), Universiti Teknologi Malaysia, Single Step Preparation Of Micro-Tubular Solid Oxide Fuel Cells.
15. September 2016, Recipient of Kurita Water and Environment Foundation Research Grant Award.
16. May 2016, Best Oral Presentation Award – Research University Grant (GUP) 2012 Colloquium, Universiti Teknologi Malaysia.
17. March 2016, Short-Term Research Program in Japan (SRJP) Award under ASEAN University Network/Southeast Asia Engineering Education Development Network (AUN-SEED)
18. March 2016, Short-term Visit Program in ASEAN (SVAS) under ASEAN University Network/Southeast Asia Engineering Education Development Network (AUN-SEED)
19. Dec 2015, Recipient of International Grant Nippon Sheet Glass Foundation for Materials Science and Engineering
20. Nov 2015, Jury Award, 17th Industrial Art and Technology Exhibition (INATEX 2015), Universiti Teknologi Malaysia, Novel Photocatalytic Reactor for Photooxidation and Separation of Organic Wastewater Pollutants
21. Nov 2015, Gold Medal Award, 17th Industrial Art and Technology Exhibition (INATEX 2015), Universiti Teknologi Malaysia, Novel Photocatalytic Reactor for Photooxidation and Separation of Organic Wastewater Pollutants
22. Nov 2015, Silver Medal Award, 17th Industrial Art and Technology Exhibition (INATEX 2015), Universiti Teknologi Malaysia, Highly Efficient Polyacrylamide-based Hydrogels as Oil/Water Filter Materials
23. June 2015, Excellent Service Award, Citra Karisma UTM Quality Day 2015, Universiti Teknologi Malaysia.
24. March 2015, Best Poster Presentation Award – Research University Grant (GUP) 2011 Colloquium, Universiti Teknologi Malaysia.
25. Oct 2014, Scholarship Award “Latihan Biasiswa Sub Kepakaran / Post Doktor”
26. Aug 2014, Award on Contribution Towards Materials & Manufacturing Research Alliance KAI 2013, during Appreciation Luncheon and Hari Raya Celebration-MMRA 2014, Universiti Teknologi Malaysia.
27. Nov 2013, Most Distinguished Award - Persidangan Dan Eskpo Ciptaan Institusi Pengajian Tinggi Antarabangsa 2013 (Pecipta 2013), SPEEK-Nanoclay Membrane: The Effective Fuel Separator.
28. Nov 2013, Best of the Best Award - Persidangan Dan Eskpo Ciptaan Institusi Pengajian Tinggi Antarabangsa 2013 (Pecipta 2013), SPEEK-Nanoclay Membrane: The Effective Fuel Separator.
29. Nov 2013, Gold Medal - Persidangan Dan Eskpo Ciptaan Institusi Pengajian Tinggi Antarabangsa 2013 (Pecipta 2013), SPEEK-Nanoclay Membrane: The Effective Fuel Separator.
30. June 2013, Visiting Academic in Imperial College London under International Exchange Scheme Award, The Royal Society of British.
31. Oct 2012, Gold Medal - Industrial Art and Technology Exhibition (INATEX) 2012, SPEEK-Nanoclay Membrane: The Effective Fuel Separator.
32. June 2012, Excellent Service Award, Citra Karisma UTM Quality Day 2012, Universiti Teknologi Malaysia.
33. Feb 2012, Visiting Academic in Imperial College London under International Exchange Scheme Award, The Royal Society of British.
34. Nov 2008, Silver Medal – The 2nd International Invention Fair of the Middle East, Novel SPEEK Membrane for Direct Methanol Fuel Cell.
35. Oct 2008, Double Gold Medal - British Invention Show (BIS) 2008, Novel SPEEK Membrane for Direct Methanol Fuel Cell.
36. Oct 2008, Gold Medal - British Invention Show (BIS) 2008, Novel SPEEK Membrane for Direct Methanol Fuel Cell.
37. May 2008, Article in International Journal Award, UTM Quality Day, Universiti Teknologi Malaysia.
38. Feb 2008, Best of the Best Award - Malaysia Technology Expo (MTE) 2008, Novel SPEEK Membrane for Direct Methanol Fuel Cell.
39. Feb 2008, Gold Medal - Malaysia Technology Expo (MTE) 2008, Novel SPEEK Membrane for Direct Methanol Fuel Cell.
40. Nov 2007 – Scholarship Award “Skim Latihan Bumiputera (SLAB)” for PhD study in Imperial College London, United Kingdom
41. August 2007, Gold Medal - Industrial Art and Technology Exhibition (INATEX) 2007, Novel SPEEK Membrane for Direct Methanol Fuel Cell.
42. Nov 2004 – Scholarship Award “Skim Latihan Bumiputera (SLAB)” for Master study in Universiti Teknologi Malaysia

CONTRIBUTIONS

1. *June-August 2017, Appointed as Head of Module Developer, Grand Final National Science Challenge 2017.*
2. *August 2017, Judge for Best Poster Award, International Congress on Membranes and Membrane Process, San Francisco, United State of America*
3. *July 2017, Judge National Science Challenge (NSC) 2017 State Level (Johor)*
4. *June 2017, Appearance in Mass Media (TV) as Panelist for Analisis Awani program, Astro Awani Network Sdn. Bhd.*
5. *June 2017-April 2018, Appointed as Organizing Committee Member for International Conference on Separation Science and Technology 2018.*
6. *June 2017-Current, Editor, EDUCATUM Journal of Science, Mathematics and Technology (EJSMT).*
7. *May-July 2017, Co-chairman National Science Challenge Johor Level 2017, Academy of Science Malaysia.*
8. *May 2017, Invited Speaker for the talk entitled "How to Survive a PhD Proposal", Organized by School of Graduate Study, Universiti Teknologi Malaysia.*
9. *April-Nov 2017, Scientific Committee, 13th International Conference on Membrane Science and Technology (MST2017), University of Diponegoro, Semarang, Indonesia.*
10. *March-August 2017, Advisor, Regional Post-graduate Conference on Environmentally Sustainable Technology 2017 (RCET '17), Universiti Teknologi Malaysia*
11. *February 2017-Current, Appointed as Secretary General of Malaysian Membrane Society (MyMembrane)*
12. *February 2017-Current, Editorial Board Member of Journal of Applied Membrane Science and Technology.*
13. *Feb 2017, Invited Speaker, International Conference on Membrane Technology and its Application (MemSep2017), Tiruchirappalli, India.*
14. *Feb 2017, Selected as Member of Global Young Academy (GYA).*
15. *Dec 2016-Current, Editorial Board Member of Journal of Membrane Research and Science.*
16. *Nov 2016, Invited Speaker, Reseach Student Seminar Program, Shibaura Institute of Technology, Japan.*
17. *Oct 2016 - Dec 2017, Editor of Book entitled "Membrane Separation Principles And Applications" published by Elsevier.*
18. *Sept 2016-Jan 2017, Guest Editor of Jurnal Teknologi Special Issue in Conjunction with National Congress on Membrane Technology (NATCOM) 2016 (Scopus-indexed Journal)*
19. *August 2016, Chairperson of Plenary Session, National Congress on Membrane Technology (NATCOM) 2016.*
20. *July 2016-Current, Editorial Board Member of Jurnal Teknologi (ISI-indexed Journal)*
21. *May 2016, Judge National Science Challenge (NSC) 2016 State Level (Johor)*
22. *March 2016-Current, District Liaison Officer, Institut Inovasi Strategik Johor.*
23. *March-September 2016, Chairman of National Congress on Membrane Technology (NATCOM 2016)*
24. *March 2016, Judge for Innovative Practices in Education and Industry Exhibition 2016 (I-PEINX 2016)*
25. *Feb 2016, Lead Guest Editor, International Journal of Polymer Science (ISI-indexed Journal)*
26. *Jan-August 2016, Editor-in-Chief of FCEE Annual Book*
27. *Dec 2015 - Dec 2017, External Accessor, Master of Business Administration in Oil and Gas, Lincoln University College*
28. *Nov 2015, Selected as Member of Young Scientist Network-Academy of Science Malaysia (YSN-ASM), Academic of Science Malaysia*
29. *Nov 2015, Selected as recipient of UTMShine Program*
30. *Nov 2015, Paralel Session Chairman in The 12th International Conference on Membrane Science and Technology (MST2015)*
31. *Sept 2015, Paralel Session Chairman in International Conference of Fuel Cell and Hydrogen Technology (ICFCHT) 2015*
32. *Aug 2015, Judge for Novel Research and Innovation Competition (NRIC) 2015, Universiti Sains Malaysia, Penang*
33. *Oct 2014, Editor-in-Chief of FPREE Annual Book*
34. *March 2014, Invited Speaker, Workshop Ceramic Membrane: Potential Applications and Challenges for Future in Universiti Tun Hussein Onn Malaysia, Batu Pahat, Johor*
35. *Jan 2013, Editor-in-Chief of Jurnal Teknologi Special Issue on Sustainable Membrane Technology for Energy, Water & Environment (Scopus-indexed Journal)*
36. *Oct 2013, Editor of Jurnal Teknologi Special Issue on Recent Research in Engineering (Scopus-indexed Journal)*
37. *August 2013, Parallel Session Chairman in International Conference on Membrane Science and Technology 2013 (MST2013), Kuala Lumpur.*
38. *Jan 2013, Auditor of HICoE Audit for Universities in Klang Valley under HICoE Impact Study funded by Ministry of Higher Education, Malaysia*
39. *July 2012, Invited Speaker, Forum - Graduate on Time (GOT): What it takes? in conjunction with PhD Got It Workshop organized by Ministry of Higher Education, Malaysia*
40. *March 2012, Parallel Session Chairman in Nanomaterials Technology Specialized Conference 2012, UTM Johor Bahru.*
41. *Sept 2011, Invited Speaker, Program Kem Kembara Ukhwah GESS 2011, Mersing, Johor*

CONTACT

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