

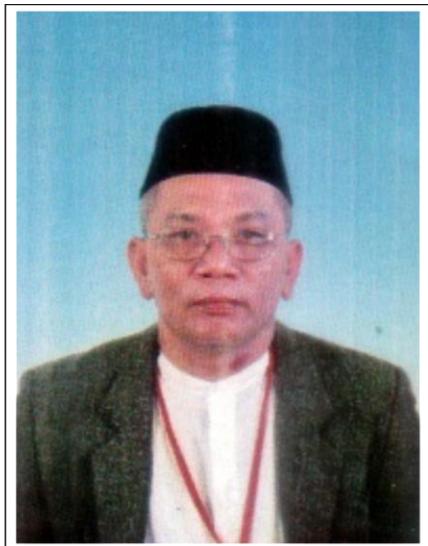
PROTOTIPE

PORTABLE POWER GENERATOR DIRECT METHANOL FUEL CELL (MDFC)

2008



FURTHER INFORMATION PLEASE CONTACT :
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RAMLI SITANGGANG

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KARYA MONUMENTAL KEILMUAN ENERGI BARU TERBARUKAN BIDANG TEKNOLOGI FUEL CELL

**TECHNOLOGY PRODUCT YANG TIDAK
DIPATENKAN**

Petunjuk

Membuat rancangan dan karya teknologi yang tidak dipatenkan; rancangan dan karya seni monumental/seni pertunjukan; karya sastra:

Berdasarkan "Pedoman operasional penilaian angka kredit kenaikan pangkat/jabatan akademik dosen" Direktorat jenderal pendidikan tinggi kementerian pendidikan dan kebudayaan tahun 2014

2001-2017

Certificate of award

ASEAN Energy Awards 2007
23rd August 2007
Shangri-La Hotel Singapura



The ASEAN energy awards 2007 were awarded to energy projects in the ASEAN region that adopt best practices in energy efficiency and conservation, energy efficient buildings, renewable energy project, energy management in building and industry and excellence in energy management. The Fuel Cell Design and Prototyping Group within the Process System Engineering of Fuel Cells Research Group in the Institut Sel Fuel (The Institute of Fuel Cell), Universiti Kebangsaan Malaysia, lead by Prof. Ir. Dr. Hj. Wan Ramli Wan Daud, the Founder Director of the Institute was awarded the Winner in the Special Submission Category in The 8th ASEAN Best Practices for Energy Efficient Buildings Competition for their entry, Small-Scale Portable Fuel Cell Power at Universiti Kebangsaan Malaysia during the ASEAN Energy Awards Night gala dinner on the 23rd of August 2007 at the Shangri-La Hotel Singapore. The special submission category refers to special projects which study, apply and/or develop innovative use of technologies (including R&D projects) which could be applied to reduce energy consumption in buildings. The aim is to promote the development of innovative energy efficiency-related solutions together with ASEAN wisdom. The award consists of a plaque and a certificate. Members of the Winning Fuel Cell Design and Prototyping Group are: Prof. Ir. Dr. Hj. Wan Ramli Wan Daud, Prof. Dr. Hj. Jaafar Sahari, Prof. Dr. Hj. Abu Bakar Mohammad, Prof. Dr. Kamaruzzaman Sopian, Prof. Dr. Abdul Amir Hassan Kadhum, Prof. Dr. Che Hassan Che Haron, En. Masli Irwan Rosli, En. Shahbudin Mastor, Dr. Edy Herianto, Dr. Ramli Sitanggang and En. T. Husaini. The awards could not have been won without the great help and support of the supporting staff of the Institut Sel Fuel, Cik Norly Ishak and En. Arrif Fadzillah Haron and other research groups at the Institute.

PROTOTIPE PORTABLE POWER GENERATOR DIRECT METHANOL FUEL CELL (MDFC)

Abstract

Hydrogen fuel cell technology is still relatively new and not widely known in Indonesia's current science arts. The approach to introducing this technology needs to be continually intensified in such a way that it can be utilized for the interests of science or wider interests. This learning stage is the cornerstone of this new technology renewable energy introduction agenda. As such, the mastery of the current fuel cell technology, must be done continuously with various methods that are relevant and at the same time affordable in human resources and other resources. Step introduction of this technology will be directed to equal education high school, college students and the general public. They can find science for experimental and laboratory levels in this system. Step introduction of this technology can be recommended to teachers to participate learn it to further disseminated to the students. Teachers' learning guide on hydrogen fuel or cells about it, can be adopted from System Fuel Cell as a reference. It is categorized in renewable energy education in middle and upper students . It is expected that after the making of this prototype can be upgraded to a larger scale prototype that is to prototype the motor, the car and also the hydrogen filling station and portable prototype in Indonesia.

TOR PRODUK TEKNOLOGI

| | | |
|---|--|---|
| Bidang Keilmuan | | Energi baru terbarukan bidang Teknologi Fuel Cell |
| Program | | Membuat rancangan dan karya teknologi yang tidak dipatenkan; rancangan dan karya seni monumental/seni pertunjukan; karya sastra Applikasi Sain Fuel Cell |
| Output Program | | PROTOTIPE PORTABLE POWER GENERATOR DIRECT METHANOL FUEL CELL (MDFC) |
| | | |
| KEGIATAN MENILAIKAN PRODUK TEKNOLOGI MELALUI PAMERAN/PERTUNJUKAN LOKAL/NASIONAL /INTERNASIONAL | | |
| Materi Pameran | | Design Advisor tool for Direct Methanol Fuel Cell (MDFC), Portable Fuel Cell Power Generator Direct Methanol Fuel Cell |
| Acknowledgement | | The financial support from the Malaysian Ministry of Science, Technology and Environment, through IRPA Project 08-02-02-0020 is much appreciated. |
| Tingkat Pameran | | INTERNATIONAL MTE, Event organizer (2008) |
| Output Pameran (Penilaian)2 | | SILVER MEDAL |
| Indikator Kinerja Kegiatan | | Jumlah Pameran /pertunjukan demostrasi Produk Teknologi |
| Jumlah Pameran (Output) | | 1 |
| Kode Penilaian | | II.E.1 |
| Bukti Kinerja | | 1 SERTIFIKAT Review |
| Kredit Paling Tinggi | | 20 |
| Usulan Nilai PORTABLE POWER GENERATOR DIRECT METHANOL FUEL CELL (MDFC) | | 20 |
| Alamat teknologi | | Institut Fuel Cell UKM |
| Reviewer Curriculum Vite terlampir | | <ul style="list-style-type: none"> • PROF. IR. DR. HJ. WAN RAMLI WAN DAUD • Department of chemical & process engineering, Faculty of Engineering, Universiti Kebangsaan Malaysia, 43600UKM Bangi, Selangor Darul Ehsan, Tel: 03-8921 6412 fax: 03-8921 6148 |

Certificate of award



Peer Review Summary

Date

Signature

Reviewer

- PROF. IR. DR. HJ. WAN RAMLI WAN DAUD
- Department of chemical & process engineering, Faculty of Engineering, Universiti Kebangsaan Malaysia, 43600UKM Bangi, Selangor Darul Ehsan,
- Tel: 03-8921 6412 fax: 03-8921 6148

Title:

PROTOTYPE POWER GENERATOR DIRECT METHANOL FUEL CELL (MDFC)

Ramli Sitanggang¹, Edy Herianto Majlan², T.Husaini³

Departement of Chemical Engineering, FTI, UPN "Veteran", Yogyakarta, Indonesia, 55283

Department of Chemical & Process Engineering, Faculty of Engineering, Universiti Kebangsaan Malaysia, 43600 UKM Bangi, Selangor Malaysia

Departement of Chemical Engineering, FT, USU, Sumatera Utara, Indonesia,

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FIELD OF TECHNOLOGY

Direct Methanol Fuel Cells (DMFCs) concerns with the field of portable power sources of the electrochemical of Direct Methanol Fuel Cells (DMFCs) at lower temperatures smaller than 60°C. The power density linearly from 35 to 80 mWcm-2 at 60°C for one stack. This fuel cell is used as a learning.

BACKGROUND OF THE TECHNOLOGY

In the last few years there has been a considerable improvement in the activity of methanol electro-oxidation catalysts, through improved operating conditions and better dispersion and control of the composition of existing platinum-ruthenium materials.

Electrode technology has also advanced with the introduction of solid polymer electrolytes, such as Nafion", which has extended the operational temperature and reduced the complexity of modern cells. The single cell data presented by various groups demonstrate the influence of parameters such as temperature, pressure, concentration of reactants and electrode structure. The present level of technology requires high temperatures (130°C) and pressures before practical cell power densities can be obtained. Most groups appear to use high noble metal loading of up to **4 mgkmz** on the anode to increase the methanol turnover to a useful rate. This level of catalyst loading is too **high** for transportation application sand clearly indicates that the anode catalyst activity has still to increase, perhaps by a factor of at least ten, to reduce the noble metal loadings to more acceptable levels of below 0.5 mgk3n2. Optimization of the electrode structure, leading to higher catalyst utilization, will also contribute to increased cell performance.

Methanol cross-over from the anode to the cathode appears to be a major limitation at present. This is reflected in the high platinum catalyst loadings and the **high** gas pressure and flow rates which are necessary for reasonable cathode performance. The performance of the DMFC would be improved considerably if a methanol-impermeable electrolyte or a methanol-tolerant cathode existed. In order to minimize the effects of methanol cross-over, alternative membrane materials have been sought. Present electrolyte materials are restricted by poor water management and therefore can only operate at temperatures below 100°C at ambient pressures. If the operational temperature could be increased to 150°C at ambient pressures, this would considerably enhance the kinetics of the anode reaction. However, this requires new materials which do not require humidification to maintain high conductivity. **An** alternative to new membrane technology is to employ methanol tolerant cathode catalysts. A possible class of materials are high surface chevrel phase composites which consist of molybdenum, ruthenium and sulphur. Although these may not offer the same oxygen reduction performance as platinum-based materials, this may outweigh the performance loss attributable to methanol cross-over seen with platinum-based materials. The DMFC has always been considered as the ideal fuel cell. Its simplified system design and direct use of liquid fuel have in the past been outweighed by the very low power densities achievable. The poor performance of the cell was due to the poor kinetics of the anode reaction and fuel cross-over. Although performance levels are not yet sufficient for commercial application, if the progress made over the past two to three years is continued, then this fuel cell could emerge from the shadows of its hydrogen-fuelled counterparts.

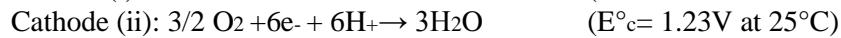
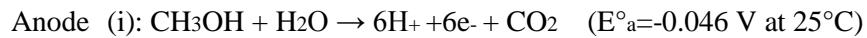
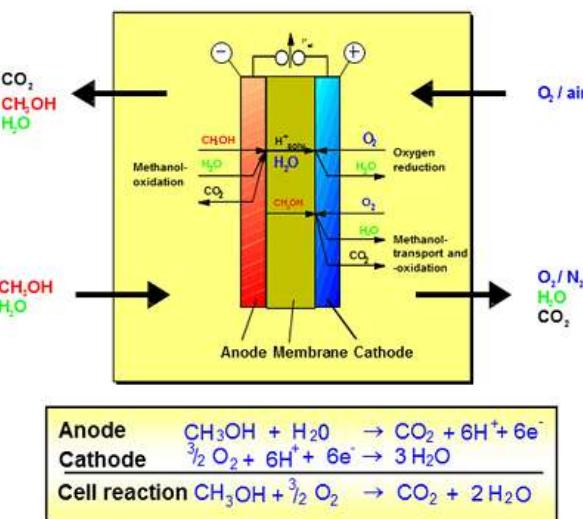
SUMMARY OF TECHNOLOGY /PRINCIPLES OF TECHNOLOGY

Principles of the DMFC

A schematic of a DMFC is shown in Figure 1. Methanol and water react electrochemically (methanol being oxidized) at the anode to produce carbon dioxide, protons and electrons as shown in Equation (i). The DMFC must contain an acidic electrolyte to aid carbon dioxide rejection, since insoluble carbonates form in alkaline electrolytes. The protons produced at the anode migrate through the polymer electrolyte to the cathode where they react with

oxygen (usually from the air) to produce water, as shown in Equation (ii). The electrons produced at the anode carry the free energy change of the chemical reaction and travel **through** the external circuit where they can be made to do useful work, such as power an electric motor. The overall cell reaction, as shown in Equation (iii), is therefore the reaction of methanol and *oxygen* to produce water and carbon dioxide. In a practical system, these reactions are promoted by the incorporation of platinum-based electrocatalyst materials in the electrodes

Principle of a DMFC



In principle, methanol should be oxidized spontaneously when the anode potential is above 0.046 V, with respect to the reversible hydrogen electrode (RHE). Similarly, oxygen should be reduced spontaneously when the cathode assume as potential below 1.23V. In reality, and in common with all fuel cell types, poor electrode kinetics (kinetic losses) cause the electrode reactions to deviate from their ideal thermodynamic values so as to incur a practical reduction of the extremely high theoretical efficiency possible from the cell. The real behavior of the individual electrodes in the DMFC system is shown in Figure 2. In practice, a far more positive potential is required at the anode and a more negative potential at the cathode to accelerate the reactions to a reasonable rate. Besides kinetic losses, there are ohmic losses deriving from the internal resistance of the fuel cell. Hence, the output of a real DMFC is substantially lower than that of the ideal cell, which would give 1.18V at any current rating. In the present generation of hydrogen fuelled systems the kinetics of the hydrogen oxidation reaction at the anode are relatively facile, and most losses occur only at the cathode. This enables the practical Hz/air PEMFC to attain very high cell power densities of 500 to 600 mW/cm² at power efficient cell voltages of 0.6 to 0.7 V. Due to the additional poorer kinetics of the DMFC anode, it is unlikely that such high power densities will be achievable at practical cell voltages. However, because the need for a fuel reformer (with associated volume and efficiency losses) is removed, it is believed that to enable the methanol/air DMFC to become

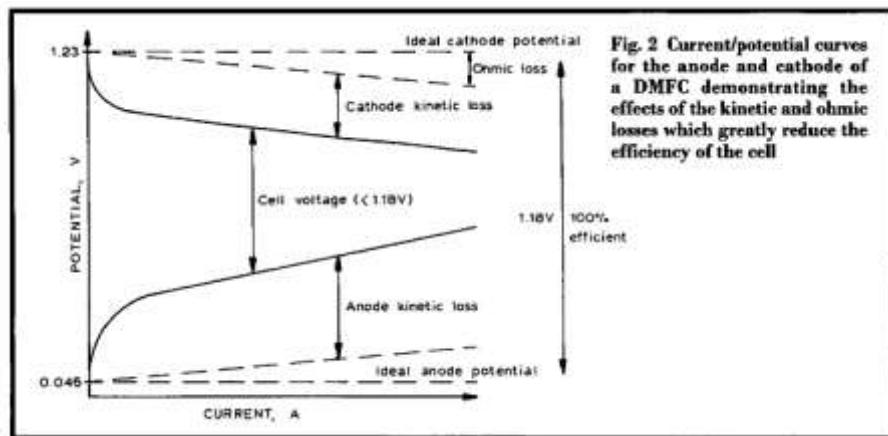
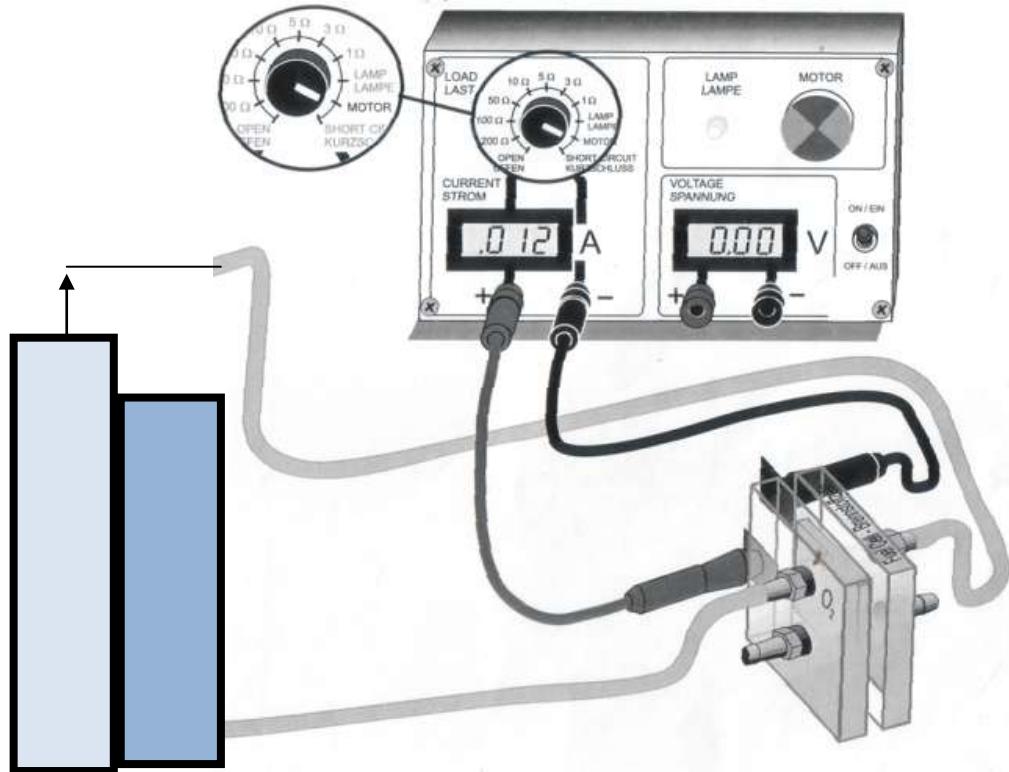


Fig. 2 Current/potential curves for the anode and cathode of a DMFC demonstrating the effects of the kinetic and ohmic losses which greatly reduce the efficiency of the cell

BRIEF DESCRIPTION OF THE DRAWINGS/SPECIFICATION



- **1 PEM Fuel Cells**
Standard Polymer Electrolyte Membrane (PEM)
- **Load Measurement Module**
Contains some position variable resistance, and motor. Measure Voltage and Current
- **Display Meters**
Current and voltage meter

Fuel Cell

- Dimensions ($L \times W \times H$) 8 " x 115/8" x 4" (200 x 297 x 100 mm)
- Open circuit voltage
- Maximum current (both cells in parallel) 0,1 A

- *Maximum power(both cells in parallel) 35 to 80 mWcm⁻²*
- *Load box Dimensions (L x W x H) 4 " x 115/8 " x 31/2 " (100 x 297 x 90 mm)*

Display Meters

- *Dimensions (L x W x H) 8 " x 115/8 " x 4 " (200 x 297 x 100 mm)*
- *Voltmeter ranges 0 - 2 V and 0 - 20 V*
- *Ammeter ranges 0 - 2 A and 0 - 20 A*
- *Internal resistance 10 M ohm*

DETAILED DESCRIPTION OF THE TECHNOLOGY

Single Cell Data

There are a number of engineering criteria associated with the design and construction of a DMFC. The wide range of operating temperatures possible with a solid polymer electrolyte system means that methanol can be supplied either as a liquid or a vapour.

The simplest systems from the engineering stand point appear to be liquid-feed systems. Circulating the liquid fuel mixture prevents excessive heating of the cell, thus reducing the number of components and the size of the system.

It is therefore not surprising that the majority of fuel cell research groups have chosen to construct liquid-feed systems.

In the U.S.A., the Advanced Research Projects Agency (ARPA) regards the DMFC as a potential mobile power source and also as a possible replacement for some of the primary batteries which are widely used by U.S. military forces.

Several groups, funded by AFU'A and the U.S. Department of Energy, have been collaborating to develop DMFC technologies. These groups include the Jet Propulsion Laboratory OpL) and Giner Inc., Los Alamos National Laboratory (LANL) and International Fuel Cells (IFC).

In Europe, the European Commission has actively funded DMFC projects for the past ten years under the framework of the Joule Programmes, and several groups have been active during this period; the most successful being Siemens (Germany) and Newcastle University. Johnson Matthey has recently been collaborating with Siemens and Innovation (Denmark) under the framework of 'Joule 3' to develop a fuel cell stack. This programme aims to develop highly efficient DMFC stacks operating with liquid fuel at ambient pressures.

The above groups have achieved a wide range of cell performances using a variety of electrode compositions and operating conditions; this access direct comparison of the data difficult, see the Table.

The minimum goal required for commercialization of fuel cells operating on methanol and air is judged to be about 200 mW/cm²at a cell voltage of 0.5 to **0.6 V**.

Some recent results achieved for single cell work by the above mentioned groups are compared in Figure 6. Data plotted with a broken line correspond to the cell operation with air as oxidant, the solid lines representing data obtained on pure oxygen operation.

Siemens have developed their single cell technology around highly loaded unsupported platinum-ruthenium black anodes (4 mg/cm²)and platinum black cathodes (4 mg/cm²), operating at high temperatures and pressures(13). Their best data show a high performance of

0.52 V at 400 mA/cm² and 130°C with pressurized methanol/ water vapour and oxygen at 4.4 bar and 5 bar, respectively.

This produces a respectable power density of about 200 mW/cm² which meets the target for a practical device, although this was achieved with pure oxygen. Durability testing of the single cell shows that stability is not yet sufficient for practical applications (14).

However, following the successful demonstration of such high performances, Siemens are currently working with Johnson Matthey and Innovation to develop cost effective cells that operate under more realistic conditions. The Newcastle group has considered both liquid-feed and vapour-feed systems, with electrodes loaded at 2.5 mg platinum' (15-17). A maximum performance of 0.5 V at 400 mA/cm² was achieved at 98°C with oxygen at 5 bar pressure and 2 M methanol water vapour at 200°C. The maximum power output with oxygen was over 350mW/cm² at 1.2Nan2. With pressurized air, the cell voltage fell to 0.4 V at 400 mA/cm², with a maximum power output of 220 mW/cm². However, at a practical cell voltage of 0.5 V the cell was able to generate only 50 mW/cm*, which is still somewhat short of the target 200 mW/cm².

Good short term stability of the electrode assemblies was, however, reported. JPU Giner Inc. present cell data of 0.47 and 0.38 V at a current density of 400 mA/cm² for their liquid-feed DMFC system operating at 90°C with 2.26 atm oxygen and air pressure, respectively (12).

They also present impressive results for electrodes with low platinum loadings of 0.5 mg/cm², which are capable of cell voltages near 0.5 V at a current density of 300 mA/cm² at 95°C. Data from LANL (18,19) are also very impressive with a best performance of 0.57 V at 400 d c m Z at 110°C for oxygen operation. This was achieved using Nafion @-112 membrane, which is thinner than the currently used [Nafion@-117](#). The enhanced performance is a result of the reduced internal resistance of the cell. The catalysts consisted of unsupported platinum/RuO₄ at the anode and platinum black at the cathode. LANL also use high temperatures and pressures to enhance the electrode kinetics and to counter fuel cross-over. Current membrane materials

are severely limited by fuel cross-over, and most research groups are addressing this problem by using high gas pressures and flow rates. The performance of the LANL cell in air was 0.52 V at 400 d c m Z at 110°C with anode and cathode pressures of 1.8 and 3 atm, respectively. It is unclear whether LANL are encountering enhanced fuel cross-over with the thinner N & on"-112 membranes, as would be expected. They do, however, suggest that the cell performance is limited by the anode catalyst activity, and that their cathode exhibits a degree of methanol tolerance. The performance of their electrode with Nafion"-117 is very similar to the data presented by the Newcastle and JPL groups.

| Summary of Recent Single Cell Results | | | | | | | | | | | |
|---------------------------------------|---------------------------|---------------------|----------|--------------------------------|--------------------|---------------|-----------------------|--------------------|----------------------|--|-------|
| Group | Type/ Electrolyte | Catalyst | | Loading, mg/cm ² | Temperature, °C | Anode feed | Cathode feed | Pressure | | Cell performance, at 400mA/cm ² | Ref. |
| | | Anode | Cathode | | | | | Anode | Cathode | | |
| Siemens | Vapour-feed Nafion-117 | Pt/Ru | Pt | 8.0 Pt | 130 | 2M | O ₂ | 4.4 bar | 5.0 bar | 0.52 V | 13 |
| Newcastle | Vapour-feed Nafion-117 | Pt/Ru/C | Pt/C | 2.5 Pt | 98 | 2M | O ₂ air | ambient ambient | 5.0 bar 5.0 bar | 0.5 V 0.4 V | 15-17 |
| LANL | Liquid-feed Nafion-112 | Pt-RuO _x | Pt black | 2.2, 2.3 Pt | 130 110 | 1M | O ₂ air | 3 atm 1.8 atm | 5.0 atm 3.0 atm | 0.57 V 0.52 V | 18,19 |
| LANL | Liquid-feed Nafion-117 | Pt-RuO _x | Pt black | 2.2, 2.3 Pt | 130 110 | 1M | O ₂ air | 3 atm 1.8 atm | 5.0 atm 3.0 atm | 0.47 V 0.39 V | 18,19 |
| JPL Giner | Liquid-feed Nafion-117 | Pt/Ru/C | Pt/Ru/C | 4 | 90 90 | 1M | O ₂ air | ambient ambient | 2.36 atm 2.36 atm | 0.47 V 0.36 V | 12 |

Reviewer

BIODATA



Name: PROF. DATO' IR. DR. WAN RAMLI BIN WAN DAUD

Date of Birth: 27THDecember 1955

Designation: Founding Director, Fuel Cell Institute UKM (2007-2013)
Professor of Chemical Engineering (since 1996)

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Order of Chivalry:

- Darjah Setia Pangkuan Negeri (D.S.P.N.) which carries the title Dato' from the Pulau Pinang State Government, Malaysia conferred on 28 August 2013.

Fellowship of Academy of Science:

- Elected Fellow of Academy of Science, Malaysia on 27 April 2012..

Academic& Professional Qualification:

- BEng (First Class Honours), Monash University, Victoria, Australia in Chemical Engineering 1978
- PhD, University of Cambridge, United Kingdom in Chemical Engineering 1984
- Professional Engineer (Chemical Engineering), Board of Engineers Malaysia (Registration No.: 8561) (1996-now)
- Chartered Chemical Engineer, Institution of Chemical Engineers, United Kingdom and The Engineering Council, United Kingdom (Registration No: 564829) (2007-now)

Academic Career:

- Tutor, Department of Chemical Technology, Faculty of Physical and Applied Sciences, Universiti Kebangsaan Malaysia (1979-1984)
- Lecturer, Department of Chemical & Process Engineering, Faculty of Engineering, Universiti Kebangsaan Malaysia (1984-1989)
- Head, Department of Chemical & Process Engineering, Universiti Kebangsaan Malaysia (1984-1988)
- Associate Professor, Department of Chemical & Process Engineering, Faculty of Engineering, Universiti Kebangsaan Malaysia (1989-1996)

- Deputy Dean, Faculty of Engineering, Universiti Kebangsaan Malaysia (1990–1993), (1995–1998)
- Professor of Chemical Engineering, Department of Chemical & Process Engineering, Faculty of Engineering, Universiti Kebangsaan Malaysia (1996–)
- Member of Senate, Universiti Kebangsaan Malaysia (1998–2004, 2014-2017).
- Chief Editor, Jurnal Kejuruteraan, The Journal of the Faculty of Engineering, UKM (1999–2004).
- Coordinator, MEng (Chemical Engineering) by course work, Department of Chemical & Process Engineering, Faculty of Engineering, Universiti Kebangsaan Malaysia (2000-2006).
- Founding Director, Fuel Cell Institute, Universiti Kebangsaan Malaysia (2007-2013)

1. Awards and Recognition:

a. International Awards

- One out of 3 Malaysians Listed in the World's Most Influential Scientific Mind 2015 by Thomson Reuters.
- Won Award for Excellence in Research in Drying of Agricultural Products and Outstanding Contribution to the Development of Drying Technology 2011
- Won Outstanding Contribution to the Drying Community Award 2009
- Won IChemE Highly Commended Shell Energy Award 2008
- Won 2 gold medals in Brussels 2007 and 2 gold medals in Geneva 2001 and 2005 respectively
- Won ASEAN Energy Awards in Singapore 2007 and in Phnom Penh 2005 respectively
- Won 2 silver medals in Brussels 2007 and 2 silver medals in Geneva 2001 and 2005
- Won 2 bronze medals in Brussels 2007
- Won special award of Environmental Protection Society of Switzerland in 2001 and special award of the Union of Innovators Croatia 2005.

List of International Awards

1. One of The World's Most Influential Scientific Mind 2015 by Thomson Reuters for publishing the most number of highly cited papers during 11 year period 2003-2013.
2. Award for Excellence in Research in Drying of Agricultural Products and Outstanding Contribution to the Development of Drying Technology 2011 at The International Symposium of Processing and Drying of Foods, Vegetables and Fruits 11-12 April 2011
3. Outstanding Contribution to the Drying Community Award 2009 at the 6th Asia-Pacific Drying Conference (ADC 2009), 19-21 October 2009, Bangkok, Thailand
4. IChemE Highly Commended Shell Energy Award 2008 for LESTARI 5000 Innovative Fuel Cell Portable Power Generator. 29 October 2008, Hilton Metropole Hotel, NEC, Birmingham, UK.
5. Gold medal for inventing LESTARI 5000™ Fuel Cell Power Generator, World Exhibition Of Innovation, Research And New Technologies, Brussels, Belgium, 2007.

6. Gold medal for inventing Solar Wind Hybrid Hydrogen Energy Production System For Remote Islands, World Exhibition Of Innovation, Research And New Technologies, Brussels, Belgium, 2007.
7. Silver medal for inventing Solar Hydrogen Eco House, World Exhibition Of Innovation, Research And New Technologies, Brussels, Belgium, 2007
8. Silver medal for inventing Compact Pressure Swing Adsorption System for Hydrogen Purification di PEMFC System, World Exhibition Of Innovation, Research And New Technologies, Brussels, Belgium, 2007
9. Bronze medal for inventing Continuous Solar Assisted Drying System For Herbs, World Exhibition Of Innovation, Research And New Technologies, Brussels, Belgium, 2007
10. Bronze medal for inventing Multi-Functional Cu-Zn-Al/ZSM-5 Catalyst for Hydrogen Production, World Exhibition Of Innovation, Research And New Technologies, Brussels, Belgium, 2007
11. ASEAN Energy Awards for inventing Small Scale Portable Power Fuel Cell Suitable for Building, Special Submission Category of the Energy Efficiency and Conservation Best Practices Competition, for Energy Efficient Building 2007.
12. Silver medal for inventing SERINDIT II: Zero Emission Vehicle, 34th Salon International Des Inventions Geneve, 2006
13. Special Award Union des Innovateurs de la Croatie for inventing SERINDIT II: Zero Emission Vehicle, 34th Salon International Des Inventions Geneve, 2006
14. Gold medal for inventing a solar dehumidification system for drying of medicinal herbs, 33rd Salon International Des Inventions Geneve, 2005
15. Silver medal for inventing catalysts for hydrogen production from methanol, 33rd Salon International Des Inventions Geneve, 2005
16. ASEAN energy award for inventing Solar Hydrogen Eco-House in Phnom Phen, Cambodia, 2005.
17. Gold medal for inventing a very efficient solar dryer, 29th Salon International Des Inventions Geneve, 2001.
18. Jury award for inventing a very efficient solar dryer, 29th Salon International Des Inventions Geneve, 2001.
19. Environmental award Swiss Society for the Protection of the Environment for inventing a very efficient solar dryer, Salon International Des Inventions Geneve 2001.
20. Best Design Prize for Universities in Victoria, Australia, Institution of Chemical Engineers, UK, Victoria Branch, 1978.
21. Shell award for best student, Monash University, 1976
22. Aluminium Council award for best student, Monash University, 1976
23. Best Student Award dalam Leaving and Matriculation Examinations 1974, Leederville Technical College, Leederville, Western Australia

b. National Awards

- Won the Merdeka Award 2016 for Outstanding Scholastic Achievement in Research and Development of Fuel Cells and Hydrogen Energy in Malaysia and the region.
- Elected Fellow of Academy of Science Malaysia 2012

- Won 1 gold medal and Best of the Best Award at PENCIPTA2013, 1 gold medal at ITEX 2010, 2 gold medals at ITEX 2009, 1 gold medal at MTE 2007, 1 gold medal at ITEX 2006, 1 gold medal at ITEX 2005, 2 gold medals at IPTA 2005 and 1 gold medal at ITEX 2000.
- Won 1 silver medal at MTE 2009, 2 silver medals at MTE 2007, 1 silver medal at MTE 2006, 5 silver medals at ITEX 2005, 2 silver medals at IPTA 2005 and 1 silver medal at EXPO S&T 2004
- Won 2 bronze medals at MTE 2009, 3 bronze medals at MTE 2006, 3 bronze medals at ITEX 2005, 1 bronze medal at Pencipta 2005, 7 bronze medals at EXPO S&T 2004 and 1 bronze medal at ITEX 2003
- Won Anugerah Saintis Cemerlang 2005, The Henry Goh award at ITEX 2000 and the MBf-Persatuan Penterjemah Malaysia Best Translated Book Award in Science & Technology for 1994 for translation of Chemical Engineering: Introduction to Design by R. K. Sinnott in 1994.

List of National Awards

1. The Merdeka Award 2016 for Outstanding Scholastic Achievement in Research and Development of Fuel Cells and Hydrogen Energy in Malaysia and the region.
2. Gold Medal and the Best of the Best Award at the PENCIPTA 2013 exhibition for inventing the Fuel Cell Hydrogen Car on 7-9 November 2013
3. Fellow of Academy of Science Malaysia on 27th April 2012
4. Gold medal for inventing Direct Methanol Fuel Cell As Hybrid Mobile Phone Charger, 21st ITEX 2010, 14-16 May 2010.
5. Silver medal for inventing Direct Methanol Fuel Cell As Renewable Energy Power Resources For Small Portable Application, 9th malaysian technology expo 2010, 4-6 february 2010.
6. Silver medal for Inventing Electrocoagulation System For Hydrogen Production And Palm Oil Mill Effluent Treatment, 9th MTE 2010, 4-6 February 2010
7. Silver medal for inventing MEA Fabrication For Fuel Cell Using Casting Technique, 9th MTE 2010, 4-6 February 2010
8. Gold medal for inventing DMFC for hybrid handphone charger, 21st ITEX 2010, 14-16 May 2010
9. Gold medal for inventing Industrial Wastewater As A Fuel For Power Generation Using A Biological Fuel Cell, ITEX 2009.
10. Gold medal for inventing Renewable Hydrogen Production Using Waste Aluminium, ITEX 2009.
11. Silver medal for inventing μDMFC: An Alternative Power Source for Hand Phone, MTE 2009.
12. Bronze medal for inventing Prototype Microbial Fuel Cell For Power Generation, MTE 2009.
13. Bronze medal for inventing Hybrid Heat Pump Dryer, MTE 2009.
14. Gold medal for inventing Direct Methanol Fuel Cell for Portable Application, ITEX 2008.
15. Pinanggangsa for inventing Integrated Photoelectrochemical Cell For Hydrogen Production From Direct Water Splitting From Light, MTE 2008
16. Gold medal for inventing LESTARI 5000TM – 5 kW Portable Fuel Cell Generator, MTE 2007.
17. Silver medal for inventing New Photocatalyst for Hydrogen Production, MTE 2007.
18. Silver medal for inventing Novel-Multi-Function Cu-Zn-Al/ZSM-5 Catalyst for Hydrogen Production, MTE 2007.

19. Silver medal for inventing Compact Pressure Swing Adsorption System for Hydrogen Purification, MTE 2006.
20. Bronze medal for inventing LESTARI™ – Portable Fuel Cell Generator, MTE 2006.
21. Bronze medal for inventing Novel Multi-function Cu-Zn-Al-Zeolite Catalyst for Hydrogen Production from Methanol, MTE 2006.
22. Bronze medal for inventing Low Temperature Sn Promoted Catalyst for Hydrogen Production, MTE 2006.
23. Gold medal for inventing LESTARI™ – 1 kW Portable Fuel Cell Generator, ITEX 2006.
24. Gold medal for inventing A Two Stage Cross-Flow Fluidised Bed Dryer, ITEX 2005.
25. Silver medal for inventing Serindit A Fuel Cell Powered Scooter, ITEX 2005.
26. Silver medal for inventing A Method For Producing MEA for PEM Fuel Cell, ITEX 2005.
27. Silver medal for inventing Catalysts For Hydrogen Production From Methanol, ITEX 2005.
28. Silver medal for inventing Polymer Composite Bipolar Plate for PEM Fuel Cell, ITEX 2005.
29. Silver medal for inventing Compact Pressure Swing Adsorber For Hydrogen Purification, ITEX 2005.
30. Bronze medals for inventing Membrane Reactor For Pure Hydrogen Production, ITEX 2005.
31. Bronze medals for inventing Photocatalyst For Solar Hydrogen Production, ITEX 2005.
32. Bronze medals for inventing System Design For 5 Kw PEMFC System, the ITEX 2005.
33. Gold medal for inventing Serindit II – Fuel Cell Vehicle, Pameran Penyelidikan and Pembangunan (R&D) IPTA 2005.
34. Gold medal for inventing Solar Hydrogen Eco House, Pameran Penyelidikan and Pembangunan (R&D) IPTA 2005.
35. Silver medal for inventing Low Temperature Catalyst Mo-Ni-Cu for Hydrogen Production From Methanol, Pameran Penyelidikan and Pembangunan (R&D) IPTA 2005.
36. Silver medal for inventing Novel Multi-Function Cu-Zn-Al-Zeolite Catalyst For Hydrogen Production From Methanol, Pameran Penyelidikan and Pembangunan (R&D) IPTA 2005.
37. Bronze medal for inventing Membrane Electrode Assembly Design, Pameran Penyelidikan and Pembangunan (R&D) IPTA 2005.
38. Anugerah Saintis Cemerlang (Excellent Scientist Award) 2005 oleh Menteri Pengajian Tinggi.
39. Silver medal for 1 kW Polymer Electrolyte Membrane Fuel Cell Prototype, Expo Science & Technology 2004.
40. Bronze medal for Compact Pressure Swing Adsorption System For Hydrogen Purification Dalam Polymer Membrane Fuel Cell System Cell, Expo Science & Technology 2004.
41. Bronze medal for Polymer Electrode Membrane (Pem) Electrolyzer For The Production Of Hydrogen From Solar Energy Cell, Expo Science & Technology 2004..
42. Bronze medal for Low Temperature Catalyst For Autothermal Methanol Steam Reforming To Produce Hydrogen Cell, Expo Science & Technology 2004..
43. Bronze medal for Heterogeneous Photocatalyst Precursor For Hydrogen Production Cell, Expo Science & Technology 2004.
44. Bronze medal for inventing Inovative Spraying Technique For Fabrication Of Gas, Ffusion Electrode Dalam Fuel Cell Cell, Expo Science & Technology 2004.

45. Bronze medal for Titanium Foam Bipolar Plate For Polymer Electrolyte Membrane Fuel Cell Cell, Expo Science & Technology 2004.
46. Bronze medal for Inter-Digitated Flow Field Pem Fuel Cell, Expo Science & Technology 2004.
47. Silver medal for inventing Solar Assisted Dehumidification System, ITEX 2003
48. Bronze medal for inventing A Baffled Plate Fluidised Bed Dryer, ITEX 2003.
49. Gold medal for inventing a Very Efficient Solar Dryer, ITEX 2000
50. The Henry Goh award for inventing A Very Efficient Solar Dryer, the ITEX 2000
51. MBf-Persatuan Penterjemah Malaysia Anugerha Buku Terjemahan Terbaik dalam Sains and Teknologi for 1994 for translation of Chemical Engineering: Introduction to Design by R. K. Sinnott in 1994
52. Gold medal, Institut Kimia Malaysia, for best student in Chemistry paper, Malaysian Certificate of Education Examination 1973.

c. **UKM Awards**

1. Individual Researcher Award UKM 2009 at Majlis Anugerah Bestari UKM 2010.
2. Individual Researcher Award UKM 2005 at Majlis Anugerah Bestari UKM 2006.
3. Gold medal and Special Award for inventing Membrane Electrode Assembly Design di Ekspo Penyelidikan dan Inovasi UKM 2005.
4. Gold medal for inventing SERINDIT II – Fuel Cell Vehicle di Ekspo Penyelidikan dan Inovasi UKM 2005
5. Gold medal for inventing Reaction Kinetics of Hydrogen Production from Autothermal Steam Reforming of Methanol Using Mo-Ni-Co Catalyst di Ekspo Penyelidikan dan Inovasi UKM 2005
6. Silver medal for inventing Novel Multi-function Cu-Zn-Al-Zeolite Catalyst for Hydrogen Production from Methanol di Ekspo Penyelidikan dan Inovasi UKM 2005
7. Bronze medal for inventing Production of Membrane Electrode Assembly (MEA) for Proton Exchange Membrane Fuel Cell By Using Sol-Gel Casting di Ekspo Penyelidikan dan Inovasi UKM 2005
8. Bronze medal for inventing Electrically Conducting Composite Bipolar Plates di Ekspo Penyelidikan dan Inovasi UKM 2005
9. Bronze medal for inventing Spouted Bed Dryer with Draft Tube di Ekspo Penyelidikan dan Inovasi UKM 2005
10. Publication Award UKM for articles published in 2004 at Hari Kualiti Tahunan UKM 2005.
11. Excellent Service Award UKM for 2004 at Hari Kualiti Tahunan, UKM 2005.
12. Publication Award UKM – Buku dalam Sains, Teknologi dan Perubatan, 2004 for the book Prinsip Reka Bentuk Proses Kimia published by the Institution of Chemical Engineers, Malaysia, 2002 at Hari Kualiti Tahunan, UKM 2004.
13. Gold medal for 1 kW polymer electrolyte membrane fuel cell prototype at the Ekspo Penyelidikan UKM 2004
14. Gold medal for compact pressure swing adsorption system for CO removal at the Ekspo Penyelidikan UKM 2004
15. Silver medal for solar hydrogen eco-house at the Ekspo Penyelidikan UKM 2004
16. Silver medal for Mangkin untuk penghasilan hidrogen daripada pembentukan semula metanol di the Ekspo Penyelidikan UKM 2004

17. Bronze medal for Sintesis dan pencirian fotomangkin tris- [1-(4- methoxyphenyl)-2-(4-carboxylphenyl)-1, 2-ethylenodithiolenic-s, s']tungsten untuk penghasilan hidrogen daripada air- di the Ekspo Penyelidikan UKM 2004
18. Bronze medal for Reaktor membran seramik –ptfe untuk penghasilan hidrogen di the Ekspo Penyelidikan UKM 2004
19. Bronze medal for PEM electrolyzer for the production of hydrogen from solar energy di the Ekspo Penyelidikan UKM 2004
20. Bronze medal for Prekursor fotomangkinheterogen untuk penghasilan hidrogen di the Ekspo Penyelidikan UKM 2004
21. Gold medal for inventing Solar Photovoltaic Hydrogen Production System Emas di Ekspo Penyelidikan Dan Inovasi UKM 2003
22. Excellent Service Award UKM for 1995 di Hari Kualiti Yearan UKM 1996.

2. RECOGNITION

2.1 Keynote and Invited Lectures

- Presented 23 international keynote lectures in China, India, Indonesia, Iran, Malaysia, Philippines, Singapore and Thailand
- Presented 10 international invited lectures Iceland, Indonesia, Japan, Malaysia, Netherlands, Philippines & Russia
- Presented 10 national keynote lectures

a. International Keynote Lectures

Year 2017:

1. Wan Ramli Wan Daud. Microbial electrolysis cells, novel hydrogen production technology: issues and challenges, the 13th International Conference on Global Sustainability and Chemical Engineering (ICGSCE), 15–16 February 2017, Putrajaya, Malaysia
2. Wan Ramli Wan Daud. The blueprint of fuel cell industries in Malaysia, the 6th International Conference on Fuel Cells and Hydrogen Technology (ICFCHT2017) 12 –13 April 2017, Putrajaya, Malaysia.

Year 2015:

3. Wan Ramli Wan Daud. Microbial Fuel Cells: A Sustainable Emerging Fuel Cell Technology, The 5th International Conference on Fuel Cell & Hydrogen Technology (ICFCHT2015), 1-3 September 2015, Kuala Lumpur, Malaysia.
4. Wan Ramli Wan Daud. Carbon-Neutral Chemical Engineering. The 28th Symposium of Malaysian Chemical Engineers (SOMCHE2015), 21 – 22 October 2015. Kuala Lumpur, Malaysia

Year 2014:

5. Wan Ramli Wan Daud. New non-pt nanostructured electrodes & nanocomposite nafion & non-nafion proton exchange membranes for fuel cells application, The 27th Symposium of Malaysian Chemical Engineers & the 21st Regional Symposium of Chemical Engineerin, 29 – 30 October 2014. Taylor's University, Kuala Lumpur, Malaysia
6. Wan Ramli Wan Daud. Fuel cell vehicle: the future of zero emission transportation. The 3rd IET International Conference on Clean Energy & Technology CEAT2014, 24-26 November 2014, Merdeka

Palace Hotel & Suites, Kuching, Sarawak, Malaysia

Year2013:

7. Wan Ramli Wan Daud Nanotechnology Applications In Hydrogen Energy & Fuel Cells, The 4th International Conference on Fuel Cell & Hydrogen Technology (ICFCHT2013), 10 October 2013, Jogjakarta, Indonesia

Year2012:

8. Wan Ramli Wan Daud Bioenergy and Sustainability. The 2nd Malaysian International Conference on Trends in Biotechnology (MICTriBE 2012) 3 -4Julai 2012, Langkawi, Kedah, Malaysia

Year 2011:

9. Wan Ramli Wan Daud Drying of Foods. International Conference of Chemical Engineering and Industrial Biotechnology (ICCEIB 2011) In conjunction with The 25th Symposium of Malaysian Chemical Engineers(SOMCHE2011) 30 November 2011, Kuantan, Pahang, Malaysia
10. Wan Ramli Wan Daud 2011. Clean Energy: Towards a Zero Emission and Carbon Free Future. Presented at the International Conference on Fuel Cell and Hydrogen Technology 2011 (ICFCHT2011), 22-23 November 2011, Kuala Lumpur, Malaysia.
11. Daud, W.R.W. 2010. Clean Energy for Tomorrow: Towards a Zero Emission and Carbon Free Future. Presented at International Workshop on Clean Energy, Faculty of Chemical Engineering, Babol Noshirvani University of Technology (BUT), Babol, Iran 2 May 2011.

Year2010:

12. Daud, W.R.W. 2010. Hydrogen fuel cells:the ultimate clean energy technology. Presented at the 17th Regional Symposium on Chemical Engineering (RSCE2010), Queen Sirikit National Convention Center, Bangkok, Thailand, 22nd -23rd November 2010.

Year 2009:

13. Daud, W.R.W. 2009. Fuel cell research trends: towards zero emission energy technology. Presented at the 16th Regional Symposium of Chemical Engineering (RSCE 2009), Manila Hotel, Manila, The Philippines, December 1st - 2nd 2009.
14. Daud, W.R.W. 2009. Recent Fuel Cells R&D in Malaysia. The 2nd International Conference on Fuel Cell & Hydrogen Technology, 28 -29 October 2009, Center of Material Technology, Agency for the Assessment and Application of Technology, Jakarta, Indonesia
15. Daud, W.R.W. 2009. Palm oil mill effluent, waste or resource? waste to energy: biohydrogen & microbial fuel cells, International Conference on the Future of the Palm Oil Business, ICPOB 2009, Hilton Phuket Arcadia, Phuket, Thailand, 19-20 February 2009.

Year 2007:

16. Daud, W.R.W. 2007. Technology policy and research progress of fuel cell in malaysia, The 2007 Conference on Fuel Cell Technology, 7th September 2007, Center of Material Technology, Agency for the Assessment and Application of Technology, Jakarta, Indonesia.
17. Daud, W.R.W. 2007. Fluidized bed dryers – recent advances, The Third Asian Particle Technology Symposium, 3rd – 5th September 2007, Beijing, China.
18. Daud, W.R.W. 2007. National hydrogen & fuel cell development in Malaysia, Battery/Fuel Cell: Asia Market 2007, 29 - 30 May 2007, Swissôtel Merchant Court, Singapore.

Year2006:

19. Daud, W.R.W. 2006. Fuel cell as energy conversion device of the future. Presented at Malaysian Scientific Society (MSA) Golden Jubilee International Symposium on Public Understanding of Science and Technology (PUSAT) 2006, June 15-17, 2006, Corus Hotel, Kuala Lumpur, Malaysia
20. Daud, W.R.W. 2006. Development of indigenous fuel cell technology: the case for Malaysia, the 2nd PETRONAS International R&D Forum, 6-7th December 2006, Kuala Lumpur, Malaysia.

Year 2005:

21. Daud, W.R.W. 2005. Fluidised bed dryers : recent advances, Presented at 4th Asia-Pacific Drying Conference, ADC 2005, 13 – 16 December 2005, Kolkata, India
22. Daud, W.R.W. 2005. Fuel cell development in Malaysia Prospects for the future, Presented at The International Science Congress, ISC 2005, 4 - 6 August 2005, Kuala Lumpur Malaysia.

Year2003:

23. Daud, W.R.W. 2003. Novel fluidized bed technology, Presented at 3rdAsia-Pacific Drying Conference, ADC 2003, 1-3 Sep 2003, Bangkok, Thailand.

b. International Invited Lectures

Tahun 2011

1. Daud, W.R.W. 2011. Food Properties. The International Symposium of Processing and Drying of Foods, Vegetables and Fruits 2011 (ISPDFVF2011) on 11 April 2011 at the Kuala Lumpur Teaching Centre, The University of Nottingham, Malaysia Campus, Chulan Tower, Jalan Conlay, Kuala Lumpur, Malaysia

Year2010:

2. Daud, W.R.W. 2010. Fuel Cell & Hydrogen Energy R&D in Malaysia. The International Hydrogen Energy Development Forum 2010, February 3rd-4th, 2010, Kyushu University Ito Campus, Fukuoka, Japan.

Year 2009:

3. Daud, W.R.W. 2009. Country report on new energy related technology and policy in Malaysia. International Symposium on Sustainable Energy and Environmental Protection 2009 (ISSEEP 2009) & 6th Sustainable Energy and Environment Forum (6th SEE Forum), 23 – 26 November, 2009, Universitas Gadjah Mada, Yogyakarta, Indonesia

Year 2008:

4. Daud, W.R.W. 2008. Renewable energy research in Malaysia, UKM-Sriwijaya Joint Colloquium on Chemical Engineering, 26-28th June 2008, Universitas Sriwijaya, Palembang, Indonesia
5. Daud, W.R.W. 2008. Biofuel cells, Presented at ASEAN COST+3: New Energy Forum for Sustainable Environment (NEFSE), Clock Tower Centennial Hall, University of Kyoto, Japan, 26-27 May 2008.
6. Daud, W.R.W. 2008. Hydrogen energy R&D and roadmap for Malaysia, Presented at the II International Forum on Hydrogen Technologies for the Developing World, in conjunction with the 9th Steering Committee Meeting of the International Partnership for Hydrogen Economy (IPHE), 22 – 23 April 2008, President Hotel, Moscow, Russia organised by the Federal Agency of Science, The Russian Federation.

Year 2006:

7. Daud, W.R.W. 2006. Fuel cells : green power system, Presented at International Conference on Green Chemistry: Malaysian Chemical Congress (MCC 2006), 19 – 21 September 2006, Sunway Pyramid Convention Centre, Petaling Jaya, Selangor, Malaysia.
8. Daud, W.R.W. 2006. Hydrogen economy: Perspectives from Malaysia which was presented at the International Seminar on the Hydrogen Economy for Sustainable Development, 28-29 September 2006, Reykjavik, Iceland organised by the Government of Iceland and the United Nations Department of Economic and Social Affairs.Hydrogen Economy: Perspective from Malaysia presented at the International Seminar on the Hydrogen Economy for Sustainable Development, 28 -29 September 2006, Reykjavik, Iceland.

Year 2005:

9. Daud, W.R.W. 2005. Hydrogen fuel cells and alternatives in the transport sector: The case for Malaysia which was presented at the United Nations University (UNU) Conference on Hydrogen Fuel Cells and Alternatives in the Transport Sector: Issues for Developing Countries, UNU-INTECH, Maastricht,

Netherlands, 7-9 November 2005

Year 2004:

10. Daud, W.R.W. 2004. The status of renewable hydrogen economy in Malaysia which was presented at the International Conference on Renewable Hydrogen Economy 2004, in conjunction with 2004 Philippine National Energy Week jointly organised by USAID and the Government of the Philippines, 7 – 9th August 2004, Makati, Manila, Phillipines

c. National Keynote Lectures

Year 2016:

1. Wan Ramli Wan Daud. Carbon-Neutral Chemical Engineering. The 28th Symposium of Malaysian Chemical Engineers (SOMCHE2015), 21 – 22 October 2015. Kuala Lumpur, Malaysia

Year 2008:

2. Daud, W.R.W. 2008. Renewable energy research in Malaysia, Technology Business Innovation Forum, Technology Park Malaysia, Bukit Jalil, Kuala Lumpur, 9th July 2008.
3. Daud, W.R.W. 2008. Energy scenario for Malaysia, IChemE Technical Roadmap for 21st Century Chemical Engineering, Sime Derby Convention Centre, Kuala Lumpur, 12th May 2008.
4. Daud, W.R.W. 2008. Fuel Cell R&D and Roadmap in Malaysia. Malaysian Chemistry Festival (MCF) 2008. PETROSAINS, Kuala Lumpur City Centre, Kuala Lumpur, Malaysia. 18 August 2008
5. Daud, W.R.W. 2008. Renewable Energy: Challenges in Malaysia. Energy Roundtable Discussion on New World Energy Order – An Inevitable Change? The 5th National Utilities Summit 2008: Plowing Through the New World Order - Towards Greener Developments, Greater Efficiency & Synergy. Nikko Hotel, Kuala Lumpur. 14 & 15 October 2008

Year 2007:

6. Daud, W.R.W. 2007. Of dyes and crystals: Applications of advanced materials and nanotechnology in chemical engineering, 21st Symposium of Chemical Engineer (SOMCHE2007), 12-13 December 2007, Universiti Putra Malaysia

Year 2006:

7. Daud, W.R.W. 2006. Fuel cells : green power system which was presented at Malaysian Chemical Congress 2006, 19 – 21 September 2006, Sunway Pyramid Convention Centre, Petaling Jaya.
8. Daud, W.R.W. 2006. Innovationand technology advancement breakthrough in fuel cell. Presented at the 20th Symposium of Chemical Engineer (SOMCHE2006), 19-21 December 2006, Universiti Teknologi MARA, Shah Alam.

Year 2004:

9. Daud, W.R.W. 2004. Fuel cell development in Malaysia Prospects for the future, Presented at 18th Symposium of Malaysian Chemical Engineers, SOMCHE 2004, 13 – 14 December 2004, Universiti Teknology PETRONAS (UTP), Bandar Seri Iskandar, Ipoh, Perak.

Year 2000:

10. Daud, W.R.W. 2000. Advances in chemical process design and optimization presented at the 14th Symposium of Malaysian Chemical Engineers, 30 – 31 October 2000, Putra Jaya, Selangor

2.2 Membership of International Committees

- Chairman, Institution of Chemical Engineers UK, Malaysia Board 2009.

- Committee Member (as Malaysian BoardChairman), International Council, Institution of Chemical Engineers UK 2009.
- Deputy Chairman, Institution of Chemical Engineers UK, Malaysia Board 2008.
- Chairman, International Advisory Committee, 15th Regional Symposium on Chemical Engineering and the 22nd Symposium of Malaysian Chemical Engineers RSCE-SOMCHE 2008, 2-3 December 2008, Kuala Lumpur, Malaysia.
- Committee Member, Institution of Chemical Engineers UK, Malaysia Board 2007.
- Member, the International Advisory Committee of the Regional Symposium on Membrane Science & Technology (2004-kini).
- Member, the International Advisory Committee of the International Workshop & Symposium on Industrial Drying (2004).
- Member, the International Organising Committee the Asian Particle Technology Symposium (2003-kini).
- Chairman, International Organising Committee, 2nd Asian Particle Technology Symposium (APT 2003) held on 17- 19 December 2003, Penang, Malaysia.
- Member, the International Advisory Committee of the World Congress of Particle Technology (2002-2006).
- Member, the International Advisory Committee of the Regional Symposium of Chemical Engineering (2002-kini)
- Member, the International Advisory Committee the Asia-Pacific Drying Conference (2001-kini)
- Chairman, International Advisory Committee, 2nd Asia-Oceania Drying Conference (ADC'2001) 20 – 22 August 2001 in Penang, Malaysia

2.3 Member of Editorial Board/Referee/Reviewer of International Journals

- Guest Editor Special Issue of International Journal of Hydrogen Energy (SCOPUS/ISI) for the 3rd International Conference on Fuel Cell and Hydrogen Technology (ICFCHT2011), 22-24 November 2011, Malaysia
- Member of Editorial Board of Journal of Sustainable Energy and Environment published by the Joint Graduate School on Energy and Environment (JGSEE), King Mongkut's University of Technology Thonburi, Thailand
- Referee/Reviewer for the following journals:
 - Drying Technology (SCOPUS/ISI)
 - Solar Energy (SCOPUS/ISI)
 - International Journal of Hydrogen Energy (SCOPUS/ISI)
 - Chemical Engineering Science (SCOPUS/ISI)
 - International Journal of Food Engineering (SCOPUS/ISI)
 - Powder Technology (SCOPUS/ISI)
 - Chemical Engineering Research & Design (SCOPUS/ISI)
 - Separation Science & Technology (SCOPUS/ISI)
 - Sains Malaysia (SCOPUS/ISI)
 - World Applied Science Journal

2.4 External Examiner of Program/Department/Faculty, Assessor for accreditation Bodies & External Advisor of Phd & MSc Thesis

a. External Examiner of Academic Program

| University | Program | Year |
|------------|---------|------|
|------------|---------|------|

| | | |
|-------------------------------------|--------------------------------|-----------|
| Universiti Sain Malaysia | BSc (Environmental Technology) | 2011 |
| Universiti Tun Hussein Onn Malaysia | BEng (Plant Engineering) | 2010 |
| Universiti Teknologi MARA | BEng (Chemical Engineering) | 2005-2007 |
| Universiti Teknologi Malaysia | BEng (Chemical Engineering) | 2001 |
| Universiti Teknologi MARA | BEng (Chemical Engineering) | 1989-1991 |
| Universiti Teknologi Malaysia | BEng (Chemical Engineering) | 1988 |

b. Member of Evaluation Panel for Board of Engineers Malaysia

| University | Program | Year |
|-------------------------------|----------------------------|------|
| Universiti Teknologi Petronas | SMKej (Kejuruteraan Kimia) | 1998 |
| Universiti Malaya | SMKej (Kejuruteraan Kimia) | 1995 |

c. Member of Evaluation Panel for National Accreditation Board

| University | Program | Year |
|------------------|--------------------------------|------|
| Taylor's College | MEng (Chemical Engineering) | 2004 |
| Prime College | Diploma (Chemical Engineering) | 2003 |

d. Member of Evaluation Panel for Engineering Accreditation Council

| University | Program | Year |
|---------------------------------|-------------------------------|------|
| Universiti Teknologi Malaysia | BEng (Gas Engineering) | 2013 |
| Taylor University Malaysia | BEng (Chemical Engineering) | 2012 |
| Universiti Teknologi Petronas | BEng (Chemical Engineering) | 2011 |
| Monash University Sunway Campus | BEng (Chemical Engineering) | 2010 |
| Universiti Malaysia Perlis | BEng (Bioprocess Engineering) | 2010 |
| Universiti Sains Malaysia | BEng (Chemical Engineering) | 2010 |

e. External Examiner of Thesis

| University | Doctor of Philosophy | Master of Science | Total |
|---|----------------------|-------------------|-----------|
| Universiti Malaya | 0 | 1 | 1 |
| Universiti Sains Malaysia | 1 | 6 | 7 |
| Universiti Teknologi Malaysia | 3 | 3 | 6 |
| Universiti Putra Malaysia | 0 | 5 | 5 |
| Universiti Teknologi Petronas | 1 | 0 | 1 |
| University of Nottingham in Malaysia | 1 | 0 | 1 |
| International Islamic University Malaysia | 1 | 0 | 1 |
| Universiti Teknologi MARA | 1 | 0 | 1 |
| Universiti Malaysia Kelantan | 0 | 1 | 1 |
| Total | 8 | 16 | 24 |

i List of PhD Thesis Examined as External Examiner

| No. | Year | University | Student | Title |
|-----|------|---------------------------|-----------------------------|--|
| 1. | 2012 | Universiti Teknologi MARA | Wan Ahmad Najmi Wan Mohamed | Solid-state Thermal Analysis of Air-cooled PEMFC with Predictive |

| | | | | |
|----|------|---|------------------------------|---|
| | | | | Empirical Profiling |
| 2. | 2011 | International Islamic University Malaysia | Rashmi G. Walkevar | Experimental Studies and CFD Simulation on Convective Heat Transfer of CNT Nanofluids for Thermal Management |
| 3. | 2010 | Universiti Teknologi Petronas | Umesh Basanaguuda Deshanavar | Studies on Hydrocarbon Fouling on Heat Transfer Surfaces |
| 4. | 2011 | University of Nottingham in Malaysia | Ong Sze Pheng | Investigation of Engineering and Quality Properties of Salak Fruit in Heat Pump Assisted Intermittent Drying |
| 5. | 2010 | Universiti Teknologi Malaysia | Inayati | Dynamic behaviour of Fuel Cell Powertrain |
| 6. | 2007 | Universiti Teknologi Malaysia | Siva Kumar a/l Kumaresan | A Process Engineering Approach to the Standardization of Eurocomanone in Eurycoma Longifolia Water Extract |
| 7 | 2005 | Universiti Teknologi Malaysia | Chua Lee Suan | Chiral resolution of (R,S)-1-phenylethanol using immobilised lipases in batch stirred tank and recirculated packed bed reactors |
| 8. | 2002 | Universiti Sains Malaysia | Mohd. Roslee bin Othman | Modification of commercial inorganic membrane with a thin layer that have finer and more uniform pores |

i. List of MSc Thesis Examined as External Examiner

| No. | Year | University | Student | Title |
|-----|------|------------------------------|----------------------------|---|
| 1. | 2012 | Universiti Sains Malaysia | Anis Suriani Binti Ibrahim | Application of the Monin-Obukhov Similarity Theory on Diurnal Wind Turbulence Statistics in the Urban Roughness Sublayer Using Local Scales |
| 2. | 2012 | Universiti Malaysia Kelantan | Rizki Wannahhari | The Recovery of Used Palm Cooking Oil Using Bagasse as Adsorbent |
| 3. | 2012 | Universiti Putra Malaysia | Wan Mohd.Fadli Wan Mokhtar | Empirical Modelling, Simulation and Control of Pasteurization Process with Fouling as Disturbance |
| 4. | 2009 | Universiti Putra Malaysia | Keshani, S. | Mathematical Models For Prediction Of Rheological Parameters Of Pomelo Juice |
| 5. | 2008 | Universiti Putra Malaysia | Nurul Faezawaty Jamaludin | Comparative Study on the Nutrient Retentivity and Thermal Process Capability of Ohmic Heated Pasteurizer |
| 6. | 2007 | Universiti Putra Malaysia | Rozaihan binti Razali | A study of the effect of fermentation, drying technique and added carotene oil on nutritional value of cassava |
| 7. | 2005 | Universiti Putra Malaysia | Soo Ching Yee | Dynamics and Convergence Acceleration of Rapid Pressure Swing Adsorption (RPSA) |
| 8. | 2005 | Universiti Sains Malaysia | Chieng Hui Yap | Penggunaan Sel Galvanik Yang Mempunyai Berbagai Konfigurasi Untuk Menurunkan Kromium Heksavalen Dalam Air Buangan Elektrosaduran |

| | | | | |
|-----|------|--------------------------------|--------------------------------|--|
| 9. | 2005 | Universiti Teknologi Malaysia | Mak Weng Yee | Fault Detection and Diagnosis (FDD) Using Multivariate Statistical Process Control via Correlation Coefficients |
| 10. | 2005 | Universiti Sains Malaysia | Chua Joo Hann | Adsorption of Fatty Acids using Metal Silica Complexes from Rice Husks |
| 11. | 2005 | Universiti Teknologi malaysian | Rosiah Rohani | Preparation of proton exchange membrane by radiation-induced grafting method : Grafting of styrene onto poly(ethylene tetrafluoroethylene) copolymer films |
| 12. | 2000 | Universiti Sains Malaysia | Yiu Pang Hung | Studies using the galvanic reduction process for hexavalent chromium in wastewater |
| 13. | 1999 | Universiti Teknologi Malaysia | Lee Ting Hui | Hasil buangan nenas sebagai sumber karbon untuk penghasilan asid sitrik oleh Aspergillus sp |
| 14 | 1999 | Universiti Malaya | Abdul Basir Aziz Khan | An Epistemological Study of Malaysia's Science and Tehcnology Policy |
| 15 | 1995 | Universiti Sains Malaysia | Gurdeep Kaur a/p Bakjsis Singh | Pengembalian Hidrometalurgi Niobium dari sati Larutan Pemelarutresapan HF:HCl Kolumbit |
| 16. | 1999 | Universiti Malaya | Abdul Basir Aziz Khan | National Science Policy |

2.5 Appointment of Adjunct/Visiting Professor and Academic Assessor/Advisor

Appointment of Adjunct Professor

| Period | Faculty/Department | University |
|-----------|-----------------------------------|---------------------------------|
| 2011-2012 | Faculty of Mechanical Engineering | Universiti Tun Hussein Malaysia |

Appointment of Visiting Professor

| Period | Faculty/Department | University |
|-------------|-----------------------------------|---------------------------------|
| 27/07/ 2011 | Faculty of Mechanical Engineering | Universiti Tun Hussein Malaysia |

Appointment of Academic Assessor/Advisor

| Period | Department | University |
|-----------|-----------------------------|------------------------------|
| 2010-2012 | Centre for Graduate Studies | Universiti Industri Selangor |

Appointment of Company Associate

| Date | Associate/Advisor | Company |
|---------|-------------------|--|
| 09/2011 | Senior Associate | Malaysia Industry Group For Hight Technology (MIGHT) |

3. RESEARCH

3.1 Fields of Research:

- Fuel cell technology: composite and inorganic electrolyte membranes, nanocatalyst electrodes, membrane electrode assemblies, stack and cell design and prototyping, fuel cell system design, solid oxide fuel cell, direct methanol fuel cell, microbial fuel cell
- Hydrogen energy: Nano-catalyst for autothermal steam reforming of alcohols, biohydrogen, solar hydrogen, photoelectrochemical cell
- Drying engineering: drum drying of starch slurries, fluidised bed and spouted bed drying of particulate materials, superheated steam drying of fibres, selective drying of multi-component solvents, drying kinetics and solar drying of agricultural crops and medicinal herbs
- Extraction: solvent extraction of antioxidants from spices and herbs, supercritical fluid extraction: thermodynamics and mass transfer of supercritical fluids and supercritical fluid extractions of anti-oxidants and essential oils from herbs
- Food properties: rheology of food material
- Design of membrane separation modules and adsorbers
- Process system engineering: process synthesis and optimization of chemical and biochemical processes including proton exchange membrane fuel cell systems
- Particle technology: flow properties of powders and fluidisation;
- History and philosophy of science and technology: Malay technology

3.2 List of Research Projects:

| No. | Project Code | Project Title | Role | Total grant (MYR) | Project period | Source of fund |
|-----|---------------------------|--|---------------------------------|-------------------|------------------------|-------------------------------------|
| 1. | 03-01-02-SF0985 | Enhanced Hydrogen Production From Agro-Industrial Waste Using Bio-Electrochemical System And Thermophilic Fermentation | Project Leader | 160,500 | 1/9/2013-29/2/2016 | Sciencefund MOSTI |
| 2. | LRGS/2013/UKM/TK | Zero Emission Fuel Cell Vehicle Powered by Hydrogen | Program Leader & Project Leader | 7,000,000 | 1/7/2013-30/6/2016 | LRGS, MOE |
| 3. | FRGS/1/2013/TK05/UKM/01/1 | Functional Spray Dried Amino Acid Powders With Controlled Polymorphs And Crystallinity | Project Leader | 106,000 | 01/4/2013 -31/3/2016 | FRGS, KPT |
| 4.. | DIP-2012-27 | Sustainable Hydrogen Production Using Microbial Electrolytic Fuel Cell and Photoelectrochemical Cell | Project Leader | 250,000 | 1/6/2012 – 30/5/2014 | Dana Impak Perdana, UKM |
| 5. | ERGS/1/2012/TK05/UKM/01/2 | Combined Wastewater Treatment and Power (CWTP) Using High Power Density Microbial Fuel Cell | Project Leader | 64,000 | 1/6/2012 – 1/6/2015 | FRGS, KPT |
| 6. | UKM-GUP-2011-368 | Fluid Dynamic and Product Deposition in spray dryers | Project Leader | 30,000 | 1/10/2011 – 30/09/2012 | Geran Univer siti Penyelidikan, UKM |

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|----|-------------------------|--|----------------|------------|-------------------------|---|
| 7. | UKM-AP-2011-02 | Clean Energy for Tomorrow: Towards Zero Emission and Carbon Free Future | Project Leader | 100,000 | 01/08/2011 - 31/07/2013 | Projek Arus Perdana, UKM |
| 8. | UKM-AP-TK-05-2009 | New Materials for Fuel Cells and Hydrogen | Project Leader | 730,000 | 01/07/2009 - 30/06/2011 | Projek Arus Perdana |
| 9. | UKM-GUP-TK-08-17-323 | PEM Fuel Cell Stack with Sided Fuel Inlet and Integrated Stacking Device | Project Leader | 300,000 | 01/05/2008 - 31/10/2010 | Geran Universiti Penyelidikan |
| 10 | 03-01-02-SF0046 | Computational fluid dynamics modelling of spray dryer with wall deposition | Project Leader | 295,000 | 01/07/2007 - 01/07/2009 | ScienceFund |
| 11 | 03-01-02-SF0396 | Development of novel depositless spray dryer | Project Leader | 211,000 | 01/08/2007 - 01/08/2009 | ScienceFund |
| 12 | 03-01-02-SF0405 | Development of low temperature solid oxide fuel cell electrolytes and electrodes | Project Leader | 308,720 | 01/08/2007 - 01/08/2009 | ScienceFund |
| 13 | UKM-KK-02-FRGS0007-2006 | Crystallization process of pharmaceuticals and macromolecules (proteins): Understanding polymorphism and chiral separation via molecular recognition and self assembly | Project Leader | 90,000 | 01/11/2006 - 31/10/2009 | Fundamental Research Grant Scheme (FRGS) |
| 14 | UKM-MTSF-SELFUEL-2009 | Optimization of Electricity Generation Using Microbial Fuel Cells for Wastewater Treatment | Project Leader | 20,000 | 12/10/2009 - 31/12/2010 | Malaysian Toray Science Foundation (MTSF) |
| 15 | 020202000P R0023/11 | Development of Commercially Competitive Compact 5 kW Proton Exchange Membrane Fuel Cell System | Project Leader | 30,054,764 | 2002-2007 | IRPA |
| 16 | 0202020001 PR0023/11-06 | Design, simulation, fabrication and long term performance testing of a compact 5 kW proton exchange membrane fuel cell system | Project Leader | 6,455,992 | 2002-2007 | IRPA |
| 17 | 0202020006 PR0023/11-11 | Development of a dye-sensitised photoelectrochemical cell for the production of hydrogen by unassisted photolysis of water | Project Leader | 2,038,332 | 2002-2007 | IRPA |
| 18 | 0802020020 | Volatile organic compounds removal technology based on | Project Leader | 1,600,000 | 1997-2000 | IRPA |

| thermal swing adsorption | | | | | | |
|--------------------------|------------------------------|---|----------------|-----------|-------------|-------------|
| 19 | 0202020011 . | Development of photoelectrochemical cells for hydrogen production for fuel cell use | Project Leader | 214,000 | 1999 – 2001 | IRPA |
| 20 | 0302020028 | Novel drying technologies | Project Leader | 880,000 | 1998 – 2002 | IRPA |
| 21 | 010703014 | Drying of agricultural products | Project Leader | 600,000 | 1988 – 1995 | IRPA |
| 22 | 03-01-02-SF0253 | Superheated Steam Drying of Oil Palm Frond Chips in a Vibrating Fluidized Bed Dryer | Co-Researcher | 283,000 | 2007-2009 | ScienceFund |
| 23 | 0902020127 | Fluidized bed for dedusting and drying of padi | Co-Researcher | 901,000 | 1997 – 2000 | IRPA |
| 24 | 02-02-02-0001-PR-23/11- 09 | Development of an Onboard Low Temperature Autothermal Fuel Processor from Liquid Fuel | Co-Researcher | 1,606,928 | 2000 – 2007 | IRPA |
| 25 | 0202020002 . PR0023/11-07 | Development and long term performance testing of bipolar plates | Co-Researcher | | 2000 – 2007 | IRPA |
| 26 | 0902020091 EA234 | Enhancing product purity and yield in the extraction of herbal oils using supercritical carbon dioxide | Co-Researcher | - | 2003 – 2006 | IRPA |
| 27 | 02-02-02-0003-PR0023/11-08 | Development And Long Term Performance Testing Of Membrane Electrode Assemblies (MEA) For Proton Exchange Membrane Fuel Cell | Co-Researcher | 1,600,200 | 2000 – 2007 | IRPA |
| 28 | 02-02-02-0005-PR0023/11-10 | Development Of A Solar Photovoltaic-Electrolyser Hydrogen Production System | Co-Researcher | | 2000 – 2007 | IRPA |
| 29 | 0902020011 EA066 | Novel extraction of aqueous two-phase systems for recovery of bioproducts from fermentation broth | Co-Researcher | - | 2001 – 2005 | IRPA |
| 30 | 0202020002 | Development of a commercially competitive proton exchange membrane fuel cell | Co-Researcher | - | 1996 - 1999 | IRPA |
| 31 | 0402020039 | Development of computational fluid dynamics (CFD) analysis for flow in stirred tank reactor | Co-Researcher | - | 2000 – 2002 | IRPA |

3.3 Research Collaboration

a. International Research Collaboration

| No. | Researcher | Institution | Field of Research | Year |
|-----|--|--|--|-------------|
| 1. | Prof. Vijay Raghavan | Department of Bioresource Engineering, Faculty of Agricultural and Environmental Sciences, McGill University, Canada | Microwave-vacuum drying | 2008- |
| 2. | Prof. Nigel Brandon | Department of Earth Science & Engineering, Imperial College London, United Kingdom | Intermediate and low temperature anode, electrolyte and cathode for solid oxide fuel cells | 2007- |
| 3. | Prof. Nobuyoshi Nakagawa | Graduate Department of Chemical Engineering, Gunma University, Kiryu, Japan | Direct alcohol fuel cells | 2007- |
| 4. | Prof. Roberts, K.J. | Institute of Particle Science and Engineering, Leeds University, United Kingdom | Control of batch crystallisation of L-Isoleucine through on-line monitoring system | 2005 – 2010 |
| 5. | Dr. Robert Driscoll | School of Chemical Engineering and Industrial Chemistry, University of New South Wales, Sydney, Australia | Fluidized bed drying of paddy | 2005 |
| 6. | Prof.Dr. Ir.Tun Teja Irawadi, Dr.Ir.Irawadi Jamaran dan Prof.Ir. Maarimi | Bogor Agricultural University, Bogor, Indonesia | Supercritical Fluid Extraction (SFE) of Sea Cucumber | 2006 - 2009 |
| 7. | Prof. Arun S. Mujumdar | Department of Mechanical and Production Engineering National University of Singapore | Industrial Drying Technology and Computational Fluid Dynamic in Dryers and in Fuel Cells | 2004 - |
| 8. | Assoc. Prof. Dr. Eric Bigerson | Department of Chemical and Biomolecular Engineering, National University of Singapore | Computational Fluid Dynamic in Fuel Cell | 2004 - |

b. National Research Collaboration

| No. | Researcher | Institution | Field of Research | Year |
|-----|-------------------------|--|--|-------|
| 1. | Pn. Nurul Fitriah Nasir | Faculty of Mechanical Engineering, Unoiversiti Tun Husseion Onn Malaysia | Modeling and optimization of continuous and batch biodiesel processes using homogenous and heterogeneous catalysts | 2010- |

| | | | | |
|----|--|---|---|-------------|
| 2. | Assoc. Prof. Dr. Dominic Foo | Department of Chemical Engineering, Faculty of Engineering, University of Nottingham Malaysia Campus | Process system engineering of fuel cells | 2009 |
| 3. | Assoc. Prof. Dr. Law Chung Lim, | Department of Chemical Engineering, Faculty of Engineering, University of Nottingham Malaysia Campus | Fluidized bed drying of padi, spray drying and two stage heat pump drying of fruits | 2006 – |
| 4. | Noornizar Anuar | Faculty of Chemical Engineering Universiti Teknologi MARA | Control of batch crystallisation of L-Isoleucine through on-line monitoring system | 2005 – |
| 5. | Dr. Ibnu Hajar Rukunudin, Ooi Ho Seng and Ten Seng Teik, | Malaysian Agricultural Research & Development Institute | Drying of kenaf fibers | 2002 - 2004 |
| 6. | Dr. Mohd Zamri Ibrahim | Fakulti Sains, Universiti Malaysia Terengganu | Hybrid wind-PV solar hydrogen system | 2003 – 2005 |
| 7. | Prof. Dr. Farid Ani Nasir | Faculty of Mechanical Engineering, Universiti Teknologi Malaysia | Preparation and characterization of carbon molecular sieve produced from oil palm | 2004 – 2006 |
| 8. | Pro.f Dr. Hamdani Saidi, Prof. Dr. Ahmad Fauzi Isnmail, Prof. Dr. Nor Aishah Saidina Amin dan Assoc. Prof. Dr. Ahmad Rahman Songip | Faculty of Chemical & Natural Resources Engineering, Prof. Md. Nor Musa, Faculty of Mechanical Engineering, Universiti Teknologi Malaysia | Development of polymer electrolyte membrane fuel cell for mobile and portable application | 1996 - |

4 Intellectual Property

- Granted 8 patents by MyPO
- Granted 5World patents
- Filed 28 patents at MyIPO
- Filed 1 trade mark at MyIPO

a. List of Patents Granted

| No. | Inventors | Invention | Date Granted | Certificate No. |
|-----|---|---|--------------|-----------------|
| 1. | Wan Ramli Wan Daud, Mohammad Kassim, Daik, R.&Arifin, K. | A Method of Producing a Photocatalyst | 31/3/ 2011 | MY-142900-A |
| 2. | Wan Ramli Wan Daud, Kamaruzzaman Sopian, Ja'afar Sahari, Che Hassan Che Haron, Abu Bakar Mohamad, Abd. Amir Hassan Kadhum, Mohd. Shahbudin Mastar @ Masdar, Masli | Water-Cooled polymer Electrolyte Membrane Fuel Cell Stack | 21/12/2011 | MY-145097-A |

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|----|---|--|------------|-------------|
| | Irwan Rosli, Nik Suhaimi Mat Hassan, Sitanggang, R., Majlan, E.H.& T. Husaini | | | |
| 3. | Yaakob, Z., Mohd Adib Ibrahim, Wan Ramli Wan Daud & Abd. Amir H. Kadhum | Cu-Zn-Al Catalyst Supported on Zeolite for hydrogen production from methanol | 15/3/ 2011 | MY-142900-A |
| 4. | Ja'afar Bin Sahari @ Shaari, Wan Ramli Wan Daud | A Method of Producing Bipolar Plate | 15/12/2011 | MY-144996-A |
| 5. | Abu Bakar Mohamad, Wan Ramli Wan Daud, Abdul Amir Hassan Kadhum, Ramli Sitanggang, Mohd Shahbudin Masdar | Innovative Membrane Electrode Assembly (MEA) Design for Proton Exchange Membrane Fuel Cell (PEMFC) | 15/8/2011 | MY-144183-A |
| 6. | Wan Ramli Wan Daud, Lorna Jefferey Minggu, Mohammad Kassim, Fadhli Hadalah | A Photocatalyst for Hydrogen Production | 29/7/2011 | MY-143950-A |
| 7. | Wan Ramli Wan Daud, Abu Bakar Mohamad, Ja'afar Bin Sahari @ Shaari, Abdul Amir Hassan Kadhum, Kamaruzzaman Sopian, Che Hassan Che Harun, Masli Irwan Rosli, Mohd Shahbudin Masdar, Edy Heriantyo Majlan, T. Hussaini, Nik Suhaimi Mat Hassan, Ramli Sitanggang | An Electrochemical Power Generator | 29/8/2011 | MY-144241-A |
| 8. | Mohammad bin Kassim, Wan Ramli Wan Daud, Lorna Jefrey Minggu, Khuzaimah Ariffin, Fadhli Hadalah | Novel Photocatalysts & Preparation Method Thereof | 13/1/2012 | MY-145222-A |

b. List of FiledWorld patents

| No. | Inventors | Invention | Filing date | Published date | Reference No. |
|-----|--|--|-------------|-------------------------------|--|
| 1. | Che Haron C H, Hassan Kadhum A A, Husaini T, Majlan E H, Mastar Masdar M S, Mohamad A B, Rosli M I, Sahari J, Sitanggang R, Sopian K, Wan Daud W R | Electrochemical power generator | 02/01/ 2009 | 28/05/ 2009&22/10/ 2009 | WO2009066 999- A2&WO200 9066999-A3 |
| 2. | Jeffery Minggu L, Wan Daud W R, Yaakob Z | Catalyst for producing hydrogen for proton exchange membrane fuel cell | 02/01/ 2009 | 22/05/ 2009&22/10/ 2009 | WO2009064 170- A2 & WO2009064 170- A3 |
| 3. | Hassan Khadum A A, Majlan E H, Mohammad AB, Mohammad A W, Takriff M S, Wan Daud W R | Compact pressure swing adsorption system for purifying hydrogen gas | 02/01/ 2009 | 22/05/ 2009&22/10/ 2009 | WO2009064 169-A2 & WO2009064 169-A3 |
| 4. | Daik R, Kassim M, Rahman F H, Wan Daud W R | Novel metal complex used as photocatalyst for production of hydrogen in photochemical cell | 02/01/ 2009 | 04/06/2009 & 17/09/2009 | WO2009070 000-A2; &WO200907 0000-A3. |
| 5. | Abu Bakar M H, Hassan Kadhum A A, Mohamad A B, Sitanggang R, Wan Daud W R | Impregnation of platinum on activated carbon, e.g. as catalyst | 02/01/ 2009 | 07/05/2009 & 22/10/2009 | WO2009057 992-A2 &WO200905 |

c. List of Filed Patentsat MyIPO

| No. | Inventors | Invention | Filing date | Reference No. |
|-----|--|--|-------------|---------------|
| 1. | Wan Ramli Wan Daud, Kamaruzzaman Sopian, Ja'afar Sahari, Che Hassan Che Haron, Abu Bakar Mohamad, Abd. Amir Hassan Kadhum, Mohd. Shahbudin Mastar @ Masdar, Masli Irwan Rosli, Nik Suhaimi Mat Hassan, Sitanggang, R., Majlan, E.H.& T. Husaini 2009 | A Fuel Cell Stack System For Vehicle Power Generation | 10/07/2009 | PI20092917 |
| 2. | Wan Ramli Wan Daud, Kamaruzzaman Sopian, Ja'afar Sahari, Che Hassan Che Haron, Abu Bakar Mohamad, Abd. Amir Hassan Kadhum, Mohd. Shahbudin Mastar @ Masdar, Masli Irwan Rosli, Nik Suhaimi Mat Hassan, Sitanggang, R., Majlan, E.H.& T. Husaini | Innovative 5kW Polymer Electrolyte Membrane Water-cooled Fuel Cell Stack | 08/06/2009 | PI20093256. |
| 3. | Abu Bakar Mohamad, Abd. Amir Hassan Kadhum, Wan Ramli Wan Daud, Mimi Hani Abu Bakar &Sitanggang, R. | Ink Formulation Design Method | 20/08/2009 | PI20093454. |
| 4. | Mohammad Kassim, Daik, R., Wan Ramli Wan Daud &Arifin, K. | Novel Photocatalyst and Preparation Method Thereof | 08/09/2009 | PI20093723. |
| 5. | Kamarudin, S.K., Wan Ramli bin Wan Daud, Hasran, U.A.&Ahmad, M.M. | MesraUIKM: Passive Direct Methanol Fuel Cell for Portable Application | 06/03/2009 | PI20092260. |
| 6. | Kamarudin, S.K., Wan Ramli Wan Daud, Hasran, U.A.&Basri, S. | MsfUKM: Design Advisor Tool for Direct methanol fuel Cell-DMFC | 07/10/2009 | PI20092910. |
| 7. | Kamarudin, S.K., Wan Ramli bin Wan Dau, Hasran, U.A.&Hashim, N. | SFIONUKM: Passive Micro Direct Methanol Fuel Cell | 22/06/2009 | PI20092617. |
| 8. | Wan Ramli Wan Daud, Abdul Wahab Mohammad, Yaakob, Z.& T. Husaini | An Integrated Membrane Reactor System for Hydrogen Gas Production | 13/06/2008 | PI20082106 |
| 9. | Wan Ramli Wan Daud, Mohammad Kassim, Daik, R.&Arifin, K. | A Method of Producing a Photocatalyst | 14/07/2008 | PI20082601 |
| 10. | Wan Ramli Wan Daud, Kamaruzzaman bin Sopian, Ja'afar Sahar, Che Hassan Che Haron, Abu Bakar Mohamad, Abd. Amir Hassan Kadhum, Mohd. Shahbudin Mastar @ Masdar, Masli Irwan Rosli, Majlan, E.H., Husaini &Sitanggang, R. | An Air-Cooled Electrochemical Power Generator (LESTARI 1000) | 18/07/2008 | PI20082673 |
| 11. | Wan Ramli Wan Daud, Mohammad Kassim, Daik, R.&Rahman, F.H. | A Method of Synthesizing a Photocatalyst for Hydrogen Production | 18/11/2008 | PI20084656 |
| 12. | Wan Ramli Wan Daud, Kamaruzzaman Sopian, Ja'afar Sahari, Che Hassan Che Haron, Abu | Polymer Electrolyte Membrane Fuel Cell | 03/11/2008 | PI20084371 |

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|-----|--|---|------------|-------------|
| | Bakar Mohamad, Abd. Amir Hassan Kadhum, Mohd. Shahbudin Mastar @ Masdar, Masli Irwan Rosli, Herianto Majlan, T. Husaini & Sitanggang, R. | Stack with Open Cathode | | |
| 13. | Ja'afar Sahari, Wan Ramli Wan Daud, Norhamidi Muhammad & Dedikarni Panuh | A Method of Producing Bipolar Plate | | PI20083067 |
| 14. | Ja'afar Sahari, Wan Ramli Wan Daud, Norhamidi Muhammad & Dedikarni Panuh | Polymer Composite Bipolar Plate | | PI20085127 |
| 15. | Yaakob, Z., Wan Ramli Wan Daud M. Rosli Yosfiah & Jamalaiah Jahim | Mo-Ni-Cu Catalyst on gamma Al ₂ O ₃ Support for hydrogen production from methanol | 4/03/2008 | PI20080488 |
| 16. | Yaakob, Z., Mohd Adib Ibrahim, Wan Ramli Wan Daud & Abd. Amir H. Kadhum | Cu-Zn-Al Catalyst Supported on Zeolite for hydrogen production from methanol | 4/08/2008 | PI20080487 |
| 17. | Mohammad Kassim, Wan Ramli Wan Daud, Daik, R.&Rahman, F.H. | A Method of Synthesizing a Photocatalyst for Hydrogen Production | 18/11/2008 | PI20084656 |
| 18. | Wan Ramli Wan Daud, Abu Bakar Muhammad, Abdul Amir Hassan Kadhum, Jaafar Sahari, Kamaruzzaman Sopian, Masli Irwan Rosli & Shahbudin Mastar @ Masdar | An Electrochemical Power Generator (LESTARI) | 21/12/2007 | PI20072055 |
| 19. | Wan Ramli Wan Daud, Mohamad, A.B., Abdul Amir Hassan Kadhum, Yaakob, Z., Takriff, M.S.&Majlan, E.H. | Compact pressure swing adsorber for hydrogen purification (CPSCA) | 16/11/2007 | PI20072029 |
| 20. | Wan Ramli Wan Daud, Mohammad Kassim, Mohamad, A.B., Abdul Amir Hassan Kadhum, Arifin, K.& Lorna Minggu | A photocatalyst for solar hydrogen production | 28/11/2007 | PI20072119. |
| 21. | Yaakob, Z., Wan Ramli Wan Daud & Lorna Minggu | Cu-Zn-Al Catalysts Promoted With Palladium For Hydrogen Production From Methanol | 16/11/2007 | PI20072030. |
| 22. | Abu Bakar Mohamad, Abdul Amir Hasan Kadhum, Wan Ramli Wan Daud, Mimi Abu Bakar & Sitanggang, R. | Process for Making Catalyst by Impregnation of Platinum of Activated Carbon | 2/11/2007 | PI20071902. |
| 23. | Abu Bakar Mohamad, Abdul Amir Hasan Kadhum, Wan Ramli Wan Daud & Sitanggang, R. | Innovative Membrane Electrode Assembly (MEA) Design for Proton Exchange Membrane Fuel Cell (PEMFC) | 19/12/2007 | PI20072279. |
| 24. | Yaakob, Z., Wan Ramli Wan Daud & Mohd Sabri Mahmud | Cu-Zn-Al Catalyst Promoted with Vanadium for hydrogen production from methanol | | PI20072270 |
| 25. | Kamaruzzaman Sopian, Wan Ramli Wan Daud & Mohd. Zamri Ibrahim | Hydrogen Production Method (PV wind hydrogen production | 13/11/2007 | PI20071969 |

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|-----|---|---|----------------|--------------|------------|
| 26. | Kamaruzzaman Sopian & Wan Ramli Wan Daud | A method for producing hydrogen and a system for supplying same to a building and/ or the like (Solar hydrogen eco-house) | system) | 13/11/2007 | PI20071970 |
| 27. | Kamaruzzaman Sopian, Wan Ramli Wan Daud & Mohd. Zamri Ibrahim | Polymer Electrolyte Membrane (PEM) electrolyzer for the production of hydrogen from solar energy | | 13/11/2007 | PI20071971 |
| 28 | Abu Bakar Mohammed (Project Leader),Wan Ramli bin Wan Daud,Abd. Amir Hassan Kadhum, Mahreni Akhmad. | Self Humidified Nanocomposite Membrane Of Nafion-Sio2-Pwa | 9 August 2010. | PI 201003752 | |
| . | | | | | |

d. Trade Mark

1. SERINDIT (07019005)

5 Publication:

ISI WOS Researcher ID: B-3635-2013

- Number of Indexed Articles WOS: 257
- H-Index ISI WOS (1995-2016) on 24May 2017: 33
- Total citations ISI WOS (1995-2017) on 24May 2017: 4117

SCOPUS Author ID: 35547717400

- Number of Indexed Articles SCOPUS: 305
- H-Index SCOPUS (1995-2016) on 24May 2017: 36
- Total citations SCOPUS (1995-2016) pada 24May 2017: 4926

GOOGLE SCHOLAR

- Number of Indexed Articles GOOGLE: 485
- H-Index GOOGLE SCHOLAR (1995-2016) on 24May 2017: 41
- Total citations GOOGLE SCHOLAR (1995-2016) on 24May 2017: 7151

Publication Summary:

Published 934articles:

- Published 342 articles in international journals,
- Published 367 articles in international conference proceedings
- Published 225 articles in national conference proceedings
- Published 2 international research books
- Published 5 chapters in international research books

- Edited 6 international conference proceedings
- Edited 8 journal issues as Chief Editor of Jurnal Kejuruteraan and Jurnal Kejuruteraan Kimia.
- Guest edited Special Issue of International Journal of Hydrogen Energy
- Published 2 national books
- Published 5 chapters in national research books
- Translated 2 books

a. Articles in International Journals:

Year 2017:

- Mohamed, W.A.N.W., Talib, S.F.A., Zakaria, I.A., Mamat, A.M.I. & Daud, W.R.W. 2017. Effect of dynamic load on the temperature profiles and cooling response time of a proton exchange membrane fuel cell. *Journal of the Energy Institute* (In Press).
- Daud, W.R.W., Rosli, R.E., Majlan, E.H., Hamid, S.A.A., Mohamed, R. & Husaini T. 2017. PEM fuel cell system control: A review. *Renewable Energy* 113: 620-638.
- Lim, S.S., Yu, E.H., Daud, W.R.W., Kim, B.H. & Scott, K. 2017. Bioanode as a limiting factor to biocathode performance in microbial electrolysis cells. *Bioresource Technology* 238: 313-324.
- Somalu, M.R., Muchtar, A., Daud, W.R.W. & Brandon, N.P. 2017. Screen-printing inks for the fabrication of solid oxide fuel cell films: a review. *Renewable and Sustainable Energy Reviews* 75, 426-439.
- Daud, W.R.W., Kamarudin, S.K., Ahmad, A., Nasef, M.M. & Mohamad, A.B. 2017. Preface to the special issue on "Sustainable fuel cell and hydrogen technologies: The 5th International Conference on Fuel Cell and Hydrogen Technology (ICFCHT 2015), 1–3 September 2015, Kuala Lumpur, Malaysia". *International Journal of Hydrogen Energy* 42 (14), 8973-8974.
- Masdar, M.S., Dedikarni, Zainoodin, A.M., Rosli, M.I., Kamarudin, S.K., Daud, W.R.W. 2017. Performance and stability of single and 6-cell stack passive direct methanol fuel cell (DMFC) for long-term operation. *International Journal of Hydrogen Energy* 42 (14): 9230-9242.
- Rosli, R.E., Sulong, A.B., Daud, W.R.W., Zulkifley, M.A., Husaini, T., Rosli, M.I., Majlan, E.H. & Haque, M.A. 2017. A review of high-temperature proton exchange membrane fuel cell (HT-PEMFC) system. *International Journal of Hydrogen Energy* 42 (14): 9293-9314.
- Satar, I., Ghasemi, M., Aljlil, A.S., Isahak, W.N.R.W., Abdalla, A.M., Alam, J., Daud, W.R.W., Yarmo, M.A., Akbarzadehh, O. 2017. Production of hydrogen by Enterobacter aerogenes in an immobilized cell reactor. *International Journal of Hydrogen Energy* 42 (14): 9024-9030.
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- Jafary, T., Daud, W.R.W., Ghasemi, M., Kim, B.H., Bakar, M.H.A. & Jahim, J.M. 2017. Assessment of recirculation batch mode of operation in bioelectrochemical system; a way forward for cleaner production of energy and waste treatment. *Journal of Cleaner Production* 142: 2544-2555.
- Faisal, M.N., Mohamed, A., Hannan, M.A., Daud, W.R.W. & Majlan, E.H. 2017. An improved multidevice interleaved boost converter with novel multiplex controller for fuel cell. *Jurnal Teknologi* 79 (1): 143-151
- Asri, N.F., Husaini, T., Sulong, A.B., Majlan, E.H. & Daud, W.R.W. 2017. Coating of stainless steel and titanium bipolar plates for anticorrosion in PEMFC: A review. *International Journal of Hydrogen Energy* 42 (14): 9135-9148.
- Soo, L.T., Loh, K.S., Mohamad, A.B. & Daud, W.R.W. 2017. The effect of varying N/C ratios of nitrogen precursors during non-metal graphene catalyst synthesis. *International Journal of Hydrogen Energy* 42 (14): 9069-9076.

14. Ahmad, H., Kamarudin, S.K., Minggu, L.J., Hasran, U.A., Masdar, S. & Daud, W.R.W. 2017. Enhancing methanol oxidation with a TiO₂-modified semiconductor as a photo-catalyst. International Journal of Hydrogen Energy 42 (14): 8986–8996.
15. Lim, B.H., Majlan, E.H., Daud, W.R.W., Rosli, M.I. & Husaini, T. 2017. Numerical analysis of modified parallel flow field designs for fuel cells. International Journal of Hydrogen Energy. 42(14): 9210–9218.

Year 2016:

16. Wafi, N.I., Daud, W.R.W., Majlan, E.H., Somalu, M.R. & Ahmad, A. 2016. Application of poly (2-hydroxyethyl methacrylate) gel electrolyte in electrochemical device: An overview. Int. J. Appl. Eng. Res 11:10043-10047.
17. Ch'ng, Y.Y., Loh, K.S., Daud, W.R.W. & Mohamad, A.B. 2016. Synthesis and characterization of sulfonated graphene oxide nanofiller for polymer electrolyte membrane. IOP Conference Series: Materials Science and Engineering 160 (1), 012035.
18. Fadzillah, D.M., Rosli, M.I., Talib, M.Z.M., Kamarudin, S.K. & Daud, W.R.W. 2016. Review on microstructure modelling of a gas diffusion layer for proton exchange membrane fuel cells. Renewable and Sustainable Energy Reviews (in Press).
19. Talib, S.F.A., Zakaria, I.A., Hamzah, W.A.W., Mamat, A.M.I., Ismail, H., Daud, W.R.W. & Mohamed, W.A.N.W. 2016. Effect of dynamic load on the temperature profiles and cooling response time of a proton exchange membrane fuel cell. J of Fuel Science and Technology, May 2016 (Submitted)
20. Arifin, K., Daud, W.R.W., Kassim, M.B. 2016. Molecular and electronic structures of a new ruthenium-tungsten bimetallic complex using density functional theory calculations. Malaysian Journal of Analytical Sciences, 20 (4):946-954.
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224. Jumari, K., Daud, W.R.W., Aziz, M.K.A. & Mydin, A.M., 1987, Microcomputer Based Data Acquisition System for a QVF Climbing Film Evaporator, Proc. National Seminar on Computer Applications in Instrumentation and Control System, pp. 55-66, 27-28 October 1987, Universiti Malaya, Kuala Lumpur.

Year 1986:

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d. General Articles

Year 1993:

1. Daud, W.R.W. 1993. Sejarah Teknologi Melayu (A History of Malay Technology), dalam Aziz Deraman (peny.), Tamadun Islam di Alam Melayu (Islamic Civilisation in the Malay World), Dewan Bahasa and Pustaka, Kuala Lumpur.
2. Daud, W.R.W. 1993. Pemikiran sains al-Biruni (al-Biruni's Scientific Thought), ASASAINS, 1/93, ms. 3 - 19
3. Daud, W.R.W. 1993. Sejarah Teknologi Kimia (A History of Chemical Technology), ASASAINS, 1/93. ms. 20 - 45.
4. Daud, W.R.W. 1993. Falsafah Sains al-Biruni (al-Biruni's Philosophy of Science), dalam Othman, M.Y. et al. (peny.), Siri Wacana Sejarah and Falsafah Sains (Discourse on History and Philosophy Series), Vol. 2, Dewan Bahasa and Pustaka, Kuala Lumpur, ms. 39 - 55.

Year 1992:

5. Daud, W.R.W. 1992, Sejarah Perkembangan Teknologi dalam Tamadun Islam (History of Technology Development in Islamic Civilisation), ASASAINS, 1/92, 1992, pp.1-15

Year 1990:

6. Daud, W.R.W. 1990, Islamic Technology : A Preliminary Study, MAAS Journal of Islamic Science, Vol. 6, No. 1, pp. 79 - 85.
7. Daud, W.R.W., Yusof, K.M., Basri, H., Ali, Y. &Jumari, K. 1990, Sejarah and Falsafah Sains and Teknologi: Kepentingannya dalam Kurikulum Kejurteraan Prasiswazah (History & Philosophy of Science & Technology: Its Impostance in the Undergraduate Engineering Curriculum), Kolokium Kedua Fakulti Kejurteraan Universiti Kebangsaan Malaysia, March 13th - March 15th 1990, Port Dickson, Negeri Sembilan, pp. 1 - 14.

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8. Daud, W.R.W. 1989. Teknologi Islam: Satu Gagasan Awal (Islamic Technology : A Preliminary Study), ASASAINS, 3/89, pp 11- 24..

Book Publications

a. International Books

i. International Research Books

1. Woo, M.W., Mujumdar, A.S. &Daud, W.R.W. (Ed.) 2010 Spray Drying Technology, Volume 1, E-book, [URL:<http://serve.me.nus.edu.sg/arun/file/Publications/books/Spray%20Drying%20Technology.pdf>](http://serve.me.nus.edu.sg/arun/file/Publications/books/Spray%20Drying%20Technology.pdf) pada 7 January 2011.
2. Woo, M.W., Mujumdar, A.S. &Daud, W.R.W. 2010. Spray Drying: Operation, Deposition & CFD Modelling. Saarbrücken, Germany: VDM Publishing House.

ii. Chapters in International Research Books

1. Wan Ramli Wan Daud 2015. Drum dryers. Dalam Mujumdar, A. S. (Peny.) Handbook of Industrial Drying, Fourth Edition, Boca Raton: CRC Press. pp. 249 – 257.
2. Chung Lim Law, Wan Ramli Wan Daud & Arun S. Mujumdar. 2014. Emerging Drying Technologies for Agricultural Products. In Introduction to Advanced Food Process Engineering, J.K. Sahu (ed.). Boca Raton: CRC Press, Pg. 31-77.
3. Mahreni, Mohamad, A.B., Kadhum, A.A.H.&Daud, W.R.W., 2011. Nanocomposite Electrolyte for PEMFC Application. Dalam Reddy, B. (Penye.). Advances in Nanocomposites - Synthesis, Characterization and Industrial Applications. Rijeka Croatia: Itech - Open Access Publisher pp. 263-288. http://www.intechopen.com/source/pdfs/15408/InTech-Nanocomposite_electrolyte_for_pemfc_application.pdf
4. Woo, M.W., Mujumdar, A.S. &Daud, W.R.W.. 2010. CFD Simulation of Spray Dryers. Di dalam Woo, M.W., Mujumdar, A.S. &Daud, W.R.W. (Peny.) Spray Drying Technology, Volume 1, E-book, [URL:<http://serve.me.nus.edu.sg/arun/file/Publications/books/Spray%20Drying%20Technology.pdf>](http://serve.me.nus.edu.sg/arun/file/Publications/books/Spray%20Drying%20Technology.pdf) pada 7 January 2011
5. Daud, W.R.W. 2006. Drum dryers. Di dalam Mujumdar, A. S. (Peny.) Handbook of Industrial Drying. Boca Raton: CRC Press. pp. 203 – 233.

iii. Editing of International Conference Proceedings

1. Daud, W.R.W. (Chief Editor), Takriff, M.S., Mohammad, A.W., Mohamad, A.B., Talib, M.Z.M., Tasirin, S.M., Abdullah, A.R.S., Md Jahim, J., Anuar, N., Markom, M.& Shuhaida Harun (Editors). Proceedings of the 15th Regional Symposium on Chemical Engineering and the 22nd Symposium of Malaysian Chemical Engineers RSCE-SOMCHE 2008, 2-3 December 2008, Kuala Lumpur, Malaysia, 2 Vol. 2000 pp.

2. Daud, W.R.W. (Chief Editor), Takriff, M.S., Tasirin, S.M., Abdullah, E.C., Ariffin, A.K., Mohammad, A.W., Muchtar, A., Abdullah, S., Chuah Teong Guan, Anuar, N. & Noorhisham Tan Kifli (Editors). 2003. Proceedings of the 2nd Asian Particle Technology Symposium (APT2003), 17-19 Dec 2003, Penang, Malaysia, 2 Vol., 1217 pp.
3. Daud, W.R.W. (Chief Editor), Rashid, A.K.A, Hamdan, A.R., Majlis, B.Y., Haron, C.H.C., Yusoff, K.M., Sopian, K., Jumari, K., Mahadi, N.M., Rahman, R.A., Saari, S., Ahmad, S. & Abdullah, S. (Editors). 2003. Proceedings of the 3rd International Conference on Advances in Strategic Technologies, Renaissance Hotel, Kuala Lumpur, Malaysia, 12 – 14 August 2003, 2 Vol., 1814 pp.
4. Daud, W.R.W. (Chief Editor), Sopian, K., Tasirin, S.M., Yatim, B., Othman, M.Y.& Rukunudin, I.H. (Editors) 2001. ADC 2001 : High Quality Product through Efficient and Environmental Friendly Drying Technology, Proceedings of the 2nd Asian-Oceania Drying Conference, 20 – 22 August 2001, Golden Sands Resort, Batu Feringhi, Pulau Pinang, Malaysia, 758 pp.
5. Daud, W.R.W. (Chief Editor), Shamsuddin, A.H., Rahman, R.A., Sembok, T.M.T., Sahari, J., Taha, M.R., Sopian, K., Mohamed, R., Shukur, R.A., Rashid, Z.A.A., Haron, C.H.C., & Abdullah, S. (Editors) 2000. ICAST 2000, The Proceeding of the 2nd International Conference on Strategic Technologies, 2 Vol., 1814 pp.

b. National Books

ii. National Research Books

1. Daud, W.R.W. 2010. Kejuruteraan: Seni atau Sains?, Syarahan Perdana, Bangi: Penerbit UKM. 94 pp.
2. Daud, W.R.W., 1992, Penyampaian Pneumatik, Kuala Lumpur: Dewan Bahasa and Pustaka, 158 pp.

ii. Chapters in National Research Books

1. Daud, W.R.W. 2009. Sejarah Perkembangan Teknologi Melayu: Satu Kajian Awal. Dalam Othman, M.Y. (Penyelaras) 2009. Wacana Sejarah dan Falsafah Sains: Sains dan Masyarakat. Kuala Lumpur: Dewan Bahasa & Pustaka, pp.14-53.
2. Daud, W.R.W. 2009. Falsafah Sains Al-Biruni. Dalam Othman, M.Y. (Penyelaras) 2009. Wacana Sejarah dan Falsafah Sains: Sains dan Masyarakat. Kuala Lumpur: Dewan Bahasa & Pustaka, pp.172-185.
3. Daud, W.R.W. 2009. Teknologi dan Pembangunan. Dalam Othman, M.Y. (Penyelaras) 2009. Wacana Sejarah dan Falsafah Sains: Sains dan Masyarakat. Kuala Lumpur: Dewan Bahasa & Pustaka, pp.541-547.
4. Daud, W.R.W. 1993. Sejarah Teknologi Melayu dalam Aziz Deraman (peny.), Tamadun Islam di Alam Melayu, Kuala Lumpur: Dewan Bahasa and Pustaka.
5. Daud, W.R.W. 1993. Falsafah Sains al-Biruni. Dalam Othman, M.Y. (peny.), Siri Wacana Sejarah and Falsafah Sains, Vol. 2, Kuala Lumpur: Dewan Bahasa and Pustaka, pp. 39-55.

iii. National Text Book

1. Daud, W.R.W. 2002. Prinsip Reka Bentuk Proses Kimia, Bandar Baru Bangi: Institusi Jurutera Kimia Malaysia, 322 pp.

iv. Translated Books

1. Daud, W.R.W. (Translator) 1991. Pengenalan kepada Kendalian Pengeringan Secara Industri, Kuala Lumpur: Dewan Bahasa and Pustaka, 1991, translated from Keey, R. B. 1979. Introduction to Industrial Drying Operations, Oxford: Pergamon Press, 352 pp.
2. Daud, W.R.W., Salihon, J., Hamid, K.H.K., Abdullah, N. &Rahman, R.A. (Translators) 1994. Kejuruteraan Kimia : Rekabentuk, Vol. 6, Kuala Lumpur: Dewan Bahasa and Pustaka translated from Coulson, J. M. & Richardson, J. F. 1983, Chemical Engineering : Design, Vol. 6, Oxford: Pergamon Press, 971 pp..

v. Editing of Journals

1. Daud, W.R.W. (Guest Editor) Special Issue of International Journal of Hydrogen Energy Vol. 38 No. 22 for selected papers from The 3rd International Conference on Fuel Cells and Hydrogen Technology 2011.
2. Daud, W.R.W. (Chief Editor), Othman, M., Ali, M.A.M., Mohamed, A., Fauzi, M., Taha, M.R., Sahari, J., Zain, F.M., Abdullah, N. & Muhamad, N. 1999. Jurnal Kejuruteraan, Vol. 11(1), 80 pp.
3. Daud, W.R.W. (Chief Editor), Othman, M., Ali, M.A.M., Mohamed, A., Fauzi, M., Taha, M.R., Sahari, J., Zain, F.M., Abdullah, N. & Muhamad, N. 1999. Jurnal Kejuruteraan, Jld 11(2), 101 pp.
4. Daud, W.R.W. (Chief Editor), Othman, M., Ali, M.A.M., Mohamed, A., Fauzi, M., Taha, M.R., Sahari, J., Zain, F.M., Abdullah, N. & Muhamad, N. 2000. Jurnal Kejuruteraan, Vol. 12, 116 pp.
5. Daud, W.R.W. (Chief Editor), Othman, M., Ali, M.A.M., Mohamed, A., Fauzi, M., Taha, M.R., Sahari, J., Zain, F.M., Abdullah, N. & Muhamad, N. 2001. Jurnal Kejuruteraan, Vol. 13, 125 pp.
6. Daud, W.R.W. (Chief Editor), Othman, M., Ali, M.A.M., Mohamed, A., Fauzi, M., Taha, M.R., Sahari, J., Zain, F.M., Abdullah, N. & Muhamad, N. 2002. Jurnal Kejuruteraan, Vol. 14, 107 pp.
7. Daud, W.R.W. (Chief Editor), Darus, Z.M., Mohammad, A.W., Haron, C.H.C., Ismail, A., Samad, S.A., Abdullah, S., Rashid, Z.A.A., Rahmat, R.A.A., Anuar, N. & Ismail, H.. 2003 Jurnal Kejuruteraan, Vol. 15, 105 pp.
8. Daud, W.R.W. (Chief Editor), Darus, Z.M., Mohammad, A.W., Haron, C.H.C., Ismail, A., Samad, S.A., Abdullah, S., Rashid, Z.A.A., Rahmat, R.A.A., Anuar, N. & Ismail, H.. 2004. Jurnal Kejuruteraan, Vol. 16, 103 pp.
9. Daud, W.R.W. (Chief Editor), Saidi, H., Masitah Hassan, Tow, T.T., Rahman, R.A., Aziz, R.A.. 2003. Jurnal Jurutera Kimia Malaysia. Vol.. 3. 105 pp.

vi. Editing of National Conference Proceedings

1. Daud, W.R.W. (Chief Editor) & Sopian, K. (Editor), Kemajuan dalam Penyelidikan & Pengembangan Sel Bahan Api Malaysia (Advances in Malaysian Fuel Cell Research & Development), Admiral Cove, Port Dickson, 27 – 30 June 2003, 306 pp.
2. Daud, W.R.W. (Chief Editor), Mohammad, A.W., Tasirin, S.M. & Takriff, M.S. (Editors) 2000. SOMChE 2000, The Proceedings of the 14th Symposium of Malaysian Chemical Engineers, 743 pp.

3. EXCELLENCE IN ACADEMIC LEADERSHIP AND MANAGEMENT

4.1 Administrative Appointment in UKM:

- Director, Fuel Cell Institute, Universiti Kebangsaan Malaysia (2010-2011)
- Founding Director, Fuel Cell Institute, Universiti Kebangsaan Malaysia (2007-2009)
- Chief Editor, Jurnal Kejuruteraan, journal of the Faculty of Engineering & Built Environment, UKM (1999–2004).
- Coordinator, Master of Engineering program by coursework (Chemical Engineering) (2000-2006).
- Member of Senate, Universiti Kebangsaan Malaysia (1998–2004).
- Deputy Dean, Faculty of Engineering, Universiti Kebangsaan Malaysia (1990–1993), (1995–1998)

- Head, Department of Chemical & Process Engineering, Faculty of Engineering, Universiti Kebangsaan Malaysia (1984–1988)

4.2 Leadership in International Academic and Professional Societies

- Ex-Officio Immediate Past Chairman, Institution of Chemical Engineers, Malaysia Board 2010.
- Chairman, Institution of Chemical Engineers, Malaysia Board 2009.
- Deputy Chairman, Institution of Chemical Engineers, Malaysia Board 2008.
- Chairman, International Advisory Committee, 15th Regional Symposium on Chemical Engineering and the 22nd Symposium of Malaysian Chemical Engineers RSCE-SOMCHE 2008, 2-3 December 2008, Kuala Lumpur, Malaysia.
- Chairman, International Organising Committee, 2nd Asian Particle Technology Symposium (APT 2003) held on 17- 19 December 2003, Penang, Malaysia.
- Chairman, International Advisory Committee, 2nd Asia-Oceania Drying Conference (ADC'2001) 20 – 22 August 2001 in Penang, Malaysia

4. Public Service

5.1 Membership of International Academic and Professional Societies

- Member, American Chemical Society, Membership no. 30086954 (2009-)
- Fellow, Institution of Chemical Engineers, United Kingdom, Membership no. 249300 (2007-).
- Chartered Chemical Engineer at the Institution of Chemical Engineers, United Kingdom and The Engineering Council UK (Registration No: 564829) (2007-)
- Associate Member, Institution of Chemical Engineers, Membership no. 249300 (1999-2006)
- Fellow Islamic Academy, United Kingdom (1984-)

5.2 Membership in National Academic and Professional Societies

- Fellow of the Academy of Science Malaysia
- Professional Engineer registered with the Board of Engineers Malaysia, Registration No. : 8561 (Chemical Engineering) (1996 -)
- Corporate Member, Institution of Engineers Malaysia, Member No. 07766 (1996-)
- Founding Corporate Member, Institusi Jurutera Kimia Malaysia (1985-2006) (Now the Malaysia Branch of the Institution of Chemical Engineers)
- Life Member, Akademi Sains Islam Malaysia (1986-).

5.3 Leadership in National Academic and Professional Societies

- President, Akademi Sains Islam Malaysia (2004-2010).

- Deputy President, Institusi Jurutera Kimia Malaysia (2004-2006).
- Chief Editor, Jurnal Jurutera Kimia Malaysia, jurnal the Institution of Chemical Engineers Malaysia (2000–2006).
- General Secretary, Akademi Sains Islam Malaysia (1997–2004)
- Committee Member, Akademi Sains Islam Malaysia (1995–1996)
- Memberof Council, Institusi Jurutera Kimia Malaysia (1993-2004)
- General Secretary,Akademi Sains Islam Malaysia (1991–1995)
- Committee Member, Akademi Sains Islam Malaysia (1986-1991) (1995–1996)

5.4 Leadership in National Committees

- Member, Examination & Qualification Committee, Board of Engineers Malaysia (2010-2012).
- Member, Examination & Qualification Committee, Board of Engineers Malaysia (2009-2010).
- Member of Evaluation Panel for the Engineering Accreditation Council,Board of Engineers Malaysia (2009-)
- Member, Steering Committee on Hydrogen, Solar Energy and Fuel Cells, Ministry of Energy, Water and Communication Malaysia, (now Ministry of Energy, Green Technologyand Water Malaysia)(2003-2005).
- Chairman, Subcommittee on Fuel Cells,Ministry of Energy, Water and Communication Malaysia, (now Ministry of Energy, Green Technologyand Water Malaysia)(2003-2005).
- Assessor for Chemical Engineering Programs at Board of Engineers Malaysia (2000-2007)
- Memberof Panel of Judges for the Intel's Science and Engineering Fair Malaysia Section 2000.
- Chairman ofTechniucal Committeeevaluating a project proposal on fuel cells under the Industrial Grant Scheme, Ministry of Science, technology and Enmvironment (now Ministry of Science, Technology and Innovations) (1998)
- Member Technical committee evaluating research and development project proposals on energy at the Ministry of Science, technology and Enmvironment (now Ministry of Science, Technology and Innovations) (1996-2000)
- Member Panel of Judges for the PETRONAS Inventor's Award (1992–1998).

5.5 Chemical Engineering Consulting Work

- Completed54chemical engineering consulting work on Quantitaive Risk Assessment of on-shore and off-shore oil and gas production installations, gas processing plants, gas pipelines, petrochemical plants, power stations and rail transport.
- Completed 6 environmental impact assessment of manufacturing plants, power stations and petrochemical plants.
- Completed 1 chemical engineering design project for extraction of waste heat from transformer coolers.

a. Quantitative Risk Assessment

1. Fisal, Z., Mohammad, A.B., Takriff, M.S., Daud, W.R.W. 2004. Environmental Impact Assessment : Guideline for Quantitative Risk Assessment for Department of Environment, Kementerian Sains, Teknologi & Inovasi.

2. Mohammad, A.B., Takriff, M.S., Fisal, Z., Daud, W.R.W. 2001. Environmental Impact Assessment: (Risk and Hazard Assessment) of Multiproduct Re-routing project, PS pipeline Sdn Bhd and Kumpulan Juruteknik Sdn Bhd.
3. Mohammad, A.B., Takriff, M.S., Fisal, Z., Daud, W.R.W. 2001. Environmental Impact Assessment: (Risk and Hazard Assessment) for the proposed Port Dickson lateral Pipeline, Petronas Gas Sdn. Bhd.
4. Mohammad, A.B., Takriff, M.S., Fisal, Z., Daud, W.R.W. 2001. Quantitative Risk and Hazard Assesment Study for Ethane Extraction Improvement Project of the Gas Processing Plant-4 in Kerteh, Terengganu, Petronas.
5. Fisal, Z., Mohammad, A.B., Takriff, M.S. dan Daud, W.R.W., 2000. Quantitative Risk and Hazard Assement Study for Ethane Pipeline, Kerteh, Terengganu, Petronas.
6. Fisal, Z., Mohammad, A.B., Takriff, M.S. dan Daud, W.R.W., 2000. Quantitative Risk and Hazard Assesment Study for Tronoh Lateral Pipeleine Tronoh, Perak, Petronas.
7. Fisal, Z., Mohammad, A.B., Takriff, M.S. dan Daud, W.R.W., 2000. Quantitative Risk and Hazard Assesment Study for Propane-Butane Looping Pipeline, Petronas.
8. Fisal, Z., Mohammad, A.B., Takriff, M.S. dan Daud, W.R.W., 2000. Quantitative Risk and Hazard Assesment Study for Trans Thailand Malaysia Pipelines Pulau Pinang dan Kedah, Petronas.
9. Fisal, Z., Mohammad, A.B., Takriff, M.S. dan Daud, W.R.W., 2000. Supplementary Quantitative Risk and Hazard Assesment Study for Kerteh Centralised Tankage Facility Project at Kerteh, Terengganu, Petronas.
10. Mustafa, M.M., Fisal, Z., Rahman, R.A., Mohammad, A.B., Takriff, M.S. dan Daud, W.R.W., 2000. Environmental Impact Assesment including Quantitative Risk and Hazard Analysis of Drumming, Warehousing and Tank Truck Cleaning Facilitiea, in Kertih, Terengganu, and Kertih Terminals Snd. Bhd.
11. Fisal, Z., Mohammad, A.B., Takriff, M.S. dan Daud, W.R.W., 1999 Risk and Hazard Assessment of the Bulk Depot in Seberang Perai, Penang, Petronas Dagangan Sdn. Bhd.
12. Fisal, Z., Mohammad, A.B., Takriff, M.S. dan Daud, W.R.W., 1999 Environmental Impact Assessment: (Risk and Hazard Assessment) for the proposed LPG Bottling Plant, Petronas Dagangan Sdn Bhd.
13. Fisal, Z., Mohammad, A.B., Takriff, M.S. dan Daud, W.R.W., 1998 Risk and Hazard Assessment) for the proposed olefin derivatives, Optimal Sdn Bhd
14. Fisal, Z., Mohammad, A.B., Takriff, M.S. dan Daud, W.R.W., 1998 Risk and Hazard Assessment for the proposed Propane Dehydrogenation plant, Kuantan, Pahang, Petronas.
15. Fisal, Z., Mohammad, A.B., Takriff, M.S. dan Daud, W.R.W., 1998 Risk and Hazard Assessment for the proposed Ammonia plant, Kerteh, Terengganu, Petronas
16. Fisal, Z., Mohammad, A.B., Takriff, M.S. dan Daud, W.R.W., 1998 Risk and Hazard Assessment for the proposed Syngas Plant, Kerteh, Terengganu, Petronas
17. Fisal, Z., Mohammad, A.B., Takriff, M.S. dan Daud, W.R.W., 1998 Risk and Hazard Assessment for the proposed PGU Loop II pipeline, Petronas Gas Sdn Bhd.
18. Fisal, Z., Mohammad, A.B., Takriff, M.S. dan Daud, W.R.W., 1997 Risk and Hazard Assessment for the proposed MLNG 3 Plant, Bintulu Sarawak, MLNG Sdn Bhd
19. Fisal, Z., Daud, W.R.W., Takriff, M.S., and Tasirin, S.M.. 1998 Quantitative Risk and Hazard Analysis of Johor Port, Pasir Gudang, Johor, dan Johor Port Authority.

20. Fisal, Z., Daud, W.R.W., Takriff, M.S., and Tasirin, S.M.. 1997. Quantitative Risk and Hazard Analysis of the Proposed BASF OXO Plant in Gebeng, Pahang dan BASF (Malaysia) Bhd.
21. Fisal, Z., Daud, W.R.W., Takriff, M.S., and Tasirin, S.M., 1997 Quantitative Risk and Hazard Analysis of the Proposed BASF Propylene Dehydrogenation Plant in Gebeng, Pahang, dan BASF (Malaysia) Bhd.
22. Fisal, Z., Daud, W.R.W., Takriff, M.S., and Tasirin, S.M., 1997 Quantitative Risk and Hazard Analysis of the Proposed Second Ethylene Plant in Kerteh, Terengganu, dan Petronas.
23. Fisal, Z., Daud, W.R.W., Takriff, M.S., and Tasirin, S.M., 1997 Quantitative Risk and Hazard Analysis of the Proposed Central Tank Facilities in Kerteh, Terengganu, dan Petronas
24. Fisal, Z., Daud, W.R.W., Takriff, M.S., and Tasirin, S.M., 1997 Quantitative Risk and Hazard Analysis of the Proposed Central Utility Facilities in Kerteh, Terengganu, dan Petronas
25. Fisal, Z., Daud, W.R.W., Takriff, M.S., and Tasirin, S.M., 1997 Quantitative Risk and Hazard Analysis of the Proposed PGU Loop 2, dan Petronas Gas Malaysia Berhad
26. Daud, W.R.W., Fisal, Z., Shariff, M.A., Tasirin, S.M., Talib, M.Z.M., 1997. Quantitative Risk and Hazard Assessment of Resak/Beranang Development. for Petronas Research & Scientific Services and Carigali Sdn Bhd.
27. Daud, W.R.W., Fisal, Z., Shariff, M.A., Tasirin, S.M., Talib, M.Z.M., 1997. Quantitative Risk and Hazard Assessment of MASA/Anding Development. for Petronas Research & Scientific Services and Carigali Sdn Bhd
28. Fisal, Z., Daud, W.R.W., Talib, M.Z.M., Abu Bakar Mohamad, Mohd. Fauzi Jani, Yaakob, Z. 1996 Quantitative Risk and Hazard Analysis of the Proposed Acrylic Acid/Acetate Plant in Gebeng, Pahang, for Petronas & BASF (Malaysia) Sdn Bhd.
29. Fisal, Z., Daud, W.R.W., Talib, M.Z.M., Abu Bakar Mohamad, Mohd. Fauzi Jani, Yaakob, Z. 1996 Quantitative Risk and Hazard Analysis of the Proposed VCM/PVC Plant in Kerteh, Terengganu, for Petronas & Land & General Berhad.
30. Fisal, Z., Daud, W.R.W., Talib, M.Z.M., Mohd. Fauzi Jani, Tasirin, S.M. 1996 Quantitative Risk and Hazard Analysis of the Proposed Kerteh Refinery II in Kerteh, Terengganu, for Petronas Penapisan (Terengganu) Sdn Bhd.
31. Jailani Salihon, Daud, W.R.W., Fisal, Z., Talib, M.Z.M., Mohd. Rasid Yaakob, & Mohd Fauzi Mohd. Jani, 1995. EIA for ABF Proposed Methanol Plant, UF80 Plant, Methanol Pipeline and Ammonia Plant Upgrading Project at Bintulu Sarawak: Quantitative Risk and Hazard Analysis, for ASEAN Bintulu Fertiliser Sdn Bhd.
32. Daud, W.R.W., Fisal, Z., Jailani Salihon, Mohd. Rasid Yaakob, Asmah Ahmad, and Talib, M.Z.M.. 1995. Quantitative Risk and Hazard Analysis of the Proposed PGU Loop 1 Project, for PETRONAS Gas Sdn Bhd.
33. Sharifah Mastura, Hassan Basri, Mohamad, A.B., Daud, W.R.W., Mohd. Fauzi Mohd Jani, Rahman, R.A., Nordin Jamaluddin, Kamaruddin Abu Taib, Kamaruddin Md. Saleh, Jamaluddin Jahi, Abdul Halim Shamsuddi. 1995. Environmental Impact Assessment Including Quantitative Risk and Hazard Analysis of Regional Clinical Waste Incinerator, for Radicare (M) Sdn Bhd.
34. Daud, W.R.W., Fisal, Z., Jailani Salihon, Meor Zainal Mero Talib, Mohd. Rasid Yaakob, and Mohamad Ramlan Mohamad Saleh, Environmental Impact Assessment Study including Quantitative Risk and Hazard Analysis and Archeological Impact Assessment Study of the Proposed Multiproduct Pipeline Project, Vol. II, Quantitative Risk and Hazard Analysis Study, , PETRONAS/Shell JV.

35. Fisal, Z., Daud, W.R.W., Jailani Salihon, Mohd. Rasid Yaakob, Talib, M.Z.M.. 1995, Chapter 9, Environmental Impact Assessment Including Quantitative Risk and Hazard Analysis Study of the Proposed Segamat Compressor Station, for PETRONAS Gas Sdn Bhd..
36. Fisal, Z., Daud, W.R.W., Jailani Salihon, Mohd. Rasid Yaakob, Talib, M.Z.M.. 1995, Chapter 9, Environmental Impact Assessment Including Quantitative Risk and Hazard Analysis Study of the PETRONAS Proposed Ammonia/Urea and integrated Methanol/Formaldehyde Plant at Gurun, Kedah Darul Aman, for PETROLIAM NASIONAL BERHAD.
37. Fisal, Z., Daud, W.R.W., Jailani Salihon, Mohd. Rasid Yaakob, Talib, M.Z.M., Mohd. Fauzi Mohd Jani. 1995, Quantitative Risk and Hazard Analysis on Bintulu LPG Extraction Project, for PETROLIAM NASIONAL BERHAD.
38. Abdul Halim Shamsuddin, Fisal, Z., Abu Bakar Mohamad, Mohammad, A.B., Kamaruzzaman Sopian, Che Hassan Che Harun, Kamaruddin Abu Taib, Aziz Arshad, Daud, W.R.W., Asmah Ahmad, Mohd. Shamsuddin Zahid Sopian and Abdul Aziz Bidin 1994. Preliminary Environmental Impact Assessment Including Quantitative Risk and Hazard Analysis of Petronas Second Refinery Project Melaka: Supplementary EIA of PSR-2 Stage I, Universiti kebangsaan malysia and Petronas Penapisan (Melaka) Sdn. Bhd.
39. Jailani Salihon, Daud, W.R.W., Fisal, Z., Abu Bakar Mohamad, Che Hassan Che Haron, Mohammad, A.B., Mohd. Rasid Yaakob, Asmah Ahmad, Siti Rozaimah Shaikh Abdullah, Najib Mahmood Rafee, Amriah Buang, and Mohd. Shamsuddin Zahid Sopian, 1994. Environmental Impact Assessment Including Quantitative Risk and Hazard Analysis of the Proposed Liquefied Petroleum Gas Product Storage Tank at Kampung Tok Arun, Mukim Kuala Paka, Dungun, Terengganu Darul Iman, Vol. II: Quantitative Risk and Hazard Analysis, , OGP Technical Services Sdn Bhd, and Petronas Gas Sdn. Bhd.
40. Jailani Salihon, Daud, W.R.W., Fisal, Z., Abu Bakar Mohamad, Che Hassan Che Haron, Mohammad, A.B., Mohd. Rasid Yaakob, Asmah Ahmad, Siti Rozaimah Shaikh Abdullah, Najib Mahmood Rafee, Amriah Buang, and Mohd. Shamsuddin Zahid Sopian, 1994. Environmental Impact Assessment Including Quantitative Risk and Hazard Analysis of the Proposed Gas Processing Plants 5 & 6 at Kampung Tok Arun, Mukim Kuala Paka, Dungun, Terengganu Darul Iman, Vol. III: Quantitative Risk and Hazard Analysis, , OGP Technical Services Sdn Bhd, and Petronas Gas Sdn. Bhd.
41. Jailani Salihon, Daud, W.R.W., Fisal, Z., Abu Bakar Mohamad, Che Hassan Che Haron, Mohammad, A.B., Mohd. Rasid Yaakob, Asmah Ahmad, Siti Rozaimah Shaikh Abdullah, Najib Mahmood Rafee, Amriah Buang, and Mohd. Shamsuddin Zahid Sopian, 1994. Environmental Impact Assessment Including Quantitative Risk and Hazard Analysis of the Proposed Gas Processing Plants 5 & 6 Interconnecting Pipelines at Terengganu Darul Iman, Vol. II: Quantitative Risk and Hazard Analysis, , OGP Technical Services Sdn Bhd, and Petronas gas Sdn. Bhd.
42. Mustafa, M.M., Mazlan Othman, Pauzi Abdullah, Hassan Mat Nor, Zaidi Mohd. Isa, Kamaruzzaman Sopian, Masuri Othman, Shahbuddin Shaari, Kamaruddin Abu Taib and Daud, W.R.W., 1993. Environmental Impact Assessment including Quantitative Risk Assessment for Natural Gas Fuelled Power Station at Tg. Gemok, Port Dickson, and Sime Engineering for Port Dickson Power Sdn. Bhd.
43. Fisal, Z., Daud, W.R.W., Jailani Salihon, Abdul Wahab Muhammad, Mohamad, A.B., Che Hassan Che Haron, Normah Abdullah, Abdullah, A.R.S., and Mohd. Rasid Yaakob. November 1992. Quantitative Risk and Hazard Analysis for Gas Turbine Power Station, Port Dickson, and Sime Engineering Sdn. Bhd. for Port Dickson Power Sdn. Bhd.
44. Fisal, Z., Daud, W.R.W., Jailani Salihon and Abdul Wahab Muhammad. October 1993. Quantitative Risk and Hazard Analysis for Coal-Fired Power Station, Kuching, Sarawak, and MAB Environmental Consultant Sdn. Bhd. for Sarawak Electricity Supply Corporation.

45. Fisal, Z., Daud, W.R.W., Jailani Salihon, and Mohd. Rasid Yaakob, September 1993. Additional Quantitative Risk Analysis for Kertih Refinery Tankage Rationalisation Project, University Kebangsaan Malaysia for Petronas Penapisan (Terengganu) Sdn Bhd.
46. Daud, W.R.W., Fisal, Z., Jailani Salihon, Abdul Wahab Muhammad, Abdullah, A.R.S., and Mohd. Rasid Yaakob. October 1992. Environmental Impact Assessment Study including Quantitative Risk and Hazard Analysis on the Dew Point Control Unit - 2 (Addition to EIA of GPP4), Vol. II : Quantitative Risk and Hazard Analysis, for OGP Sdn. Bhd.
47. Daud, W.R.W. and Nordin Jamaluddin, June 1993. Supplementary Environmental Impact Assessment for the Proposed Lube Blending Facilities at Petronas Penapisan (Melaka) Sdn Bhd., Tangga Batu Melaka, for Petronas Penapisan (Melaka) Sdn Bhd.
48. Jailani Salihon, Abdul Rahim Md. Nor, Abdul Wahab Muhammad, Normah Abdullah, Mohd. Rasid Yaakob, Wan Ramli bin Wan Daud and Fisal, Z., 1992, Quantitative Risk and Hazard Analysis of GPP4 and Stage 2 Compressor Station, Vol. II, Environmental Impact Assessment of GPP4 and Stage 2 Compressor Station including Quantitative Risk and Hazard Analysis, untuk Petronas Gas (Malaysia) Sdn. Bhd., Kuala Lumpur, July 1992.
49. Jailani Salihon, Abdul Rahim Md. Nor, Abdul Wahab Muhammad, Normah Abdullah, Mohd. Rasid Yaakob, Wan Ramli bin Wan Daud and Fisal, Z., 1992, Quantitative Risk and Hazard Analysis of Stage 2 Compressor Station in Kuantan, Vol. II, Environmental Impact Assessment of Stage 2 Compressor Station in Kuantan including Quantitative Risk and Hazard Analysis, untuk Petronas Gas (Malaysia) Sdn. Bhd., Kuala Lumpur, July 1992.
50. Jailani Salihon, Abdullah Taib, Abdul Rahim Md. Nor, Abdul Wahab Muhammad, Normah Abdullah, Mohd. Rasid Yaakob, Wan Ramli bin Wan Daud and Fisal, Z., 1992, Quantitative Risk and Hazard Analysis of PGU III, Vol. II, Environmental Impact Assessment of PGU III including Quantitative Risk and Hazard Analysis, for Petronas Gas (Malaysia) Sdn. Bhd., Kuala Lumpur, July 1992.
51. Jailani Salihon, Asmah Ahmad, Normah Abdullah, Mohd. Rasid Yaakob, Wan Ramli bin Wan Daud and Fisal, Z., 1992, Quantitative Risk Analysis for Kertih Refinery with Emphasis on Tankage Rationalisation Project, with for Petronas Penapisan (Terengganu) Sdn. Bhd., Kerteh, Terengganu, April 1992.
52. Jailani Salihon, Asmah Ahmad, Normah Abdullah, Mohd. Rasid Yaakob, Wan Ramli bin Wan Daud and Fisal, Z., 1992, Quantitative Risk Analysis for Debottlenecking of Kertih Refinery, with for Petronas Penapisan (Terengganu) Sdn. Bhd., Kerteh, Terengganu, July 1992.
53. Wan Ramli bin Wan Daud, Fisal, Z., Jailani Salihon, Asmah Ahmad and Abdul Rahim Md. Nor, 1990, Hazard Analysis and Quantitative Risk Assessment of the Proposed Cracker and Polyethylene Plants at Pasir Gudang Industrial Estate, KDI and for Titan Petrochemical (M) Sdn. Bhd. and Titan Polyethylene (M) Sdn. Bhd. Novewmber 1990.
54. Wan Ramli bin Wan Daud, Fisal, Z., Jailani Salihon and Asmah Ahmad, 1990, Quantitative Risk Assessment and Hazard Analysis of the Shell Bagan Luar Depot, for Shell Trading Malaysia Sdn. Bhd., August 1990.

b. Environmental Impact Assessment

1. Daud, W.R.W., 1995. Air Pollution Dispersion Study for the Proposed 2000 MW Power Station at Tanjung Batu, Perak Darul Ridzuan, Tenaga Nasional Research & Development Sdn Bhd.
2. Daud, W.R.W., 1995. Air Pollution Study in Prelimeniray EIA Study of the Proposed Aluminium Smelting Plant for Sumimetal Industries (M) Sdn Bhd on Lot 568 & 569 Kawasan Perindustrian Bukit Rambai, Daerah Melaka Tengah, Melaka, MAB Consultants.

3. Ahmad Badri Mohamad, et al (including Daud, W.R.W.), 1993. Preliminary Environmental Impact Assessment of the Proposed Coal-Fired Power Plant Project, Sejingkat, Kuching, Sarawak, MAB Environmental Consultant Sdn. Bhd. for Sarawak Electricity Supply Corporation.
4. Wong Yoke Fai, Noraini Mohd. Tamim, Asmah Ahmad, Ismail Mohd. Nor, Daud, W.R.W., Shaharuddin Ahmad, Abdul Rahim Mohd. Nor, Ngan Sik Yan and Khiri Pandak Saaid, 1991, Environmental Impact Assessment of the Proposed Industrial Estate and Housing Development at the Mukim Rasa, Daerah Ulu Selangor, with Sepakat Setia Perunding Sdn Bhd for Perbaandan Kemajuan Negeri Selangor, June 1991.
5. Mazlan Othman, Abdul Rahim Md. Nor, Abdul Latiff Mohamed, Asmah Ahmad, G. W. H. Davidson, Hassan Basri, Syed Sheikh Almashoor, Wan Ramli bin Wan Daud, Zakaria Ismail, and Zakaria, Z., 1990, Environmental Impact Assessment for the Proposed Cracker and Polyethylene Plants at Pasir Guandg Industrial Estate, KDI and for Titan Petrochemical (M) Sdn. Bhd. and Titan Polyethylene (M) Sdn. Bhd, July 1990.
6. Mohd. Ariffin Hj. Aton, Ramli Mohammad, Sharifah Mastura Syed Abdullah, Sanusi Jangi, Abdul Majid Mat Salleh, Ismail Mohd. Nor, Mazlan Othman, Noraini Mohd. Tamim, Sanusi Othman, G. W. H. Davidson, S. Awadala, Daud, W.R.W., 1989, Preliminary Environmental Impact Assessment: Proposed PETRONAS MTBE/Propylene and Polypropylene Plants and Associated Facilities, Kuantan Pahang, in Association with SWEC/Zainal Sdn. Bhd. for PETRONAS, Neste Oy and Idemitsu, December 1989.

a. Chemical Engineering Design

1. Daud, W.R.W., 1995. Waste Heat Extraction from Transformer Coolers, Idwal Engineers Sdn Bhd. for Tenaga Nasional Research & Development Sdn Bhd.

6. TEACHING AND SUPERVISION

6.1 Teaching

a. Post-Graduate Teaching

Courses Taught

- Computer Aided Chemical Process Design (2002-)
- Energy and the Environment (2000-)
- Air Pollutant Chemistry and Dispersion (1999-)
- Air Pollution Control (1999-)

b. Under-Graduate Teaching

Courses Taught:

- Transport Phenomena I (2007-2008)
- Separation Processes (2006-2007)
- Food Engineering (1999-)
- Chemical Process Principles (1999-)
- Technology and Civilization (1990-2006)
- Process Plant Design (1986-2006)

6.2 Supervision of Doctor of Philosophy & Master of Science Students

| Degree | Supervisor | Graduated | Ongoing | Withdrawn | Total | Overall Total |
|--------|------------|-----------|---------|-----------|-------|---------------|
|--------|------------|-----------|---------|-----------|-------|---------------|

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|--|------|-----|----|----|-----|-----|
| PhD | Main | 35 | 11 | 14 | 60 | 86 |
| | Co | 12 | 17 | - | 29 | |
| MSc | Main | 31 | 4 | 9 | 44 | 63 |
| | Co | 11 | 10 | - | 21 | |
| Total Post-Graduate Students Supervised | | 89 | 42 | 23 | 154 | 154 |
| Total Under-Graduate Students Supervised | | 111 | - | - | - | 111 |

List of PhD Students' Thesis

| No. | Period | Student | Title of Thesis | Supervisory role | Status of student |
|-----|--------|--------------------------------------|---|--------------------------------|-------------------|
| 1 | 2016- | Ros Emilia Binti RosliSelfuel | Reka Bentuk dan Pengembangan Sistem Sel Fuel PEM Bersuhu Tinggi | Ahli J/K Penyeliaan | Sedang maju |
| 2 | 2016 | Siti Najibah Abd RahmanSelfuel | Reka Bentuk dan Pembangunan Penjana Kuasa Mudah Alih Sel Bahan Api | Ahli J/K Penyeliaan | Sedang maju |
| 3 | 2016- | Raba'atun Adawiyah ShamsuddinSelfuel | Corrosion of Heat Treated Stainless Steel For Use As Base of Biocathode in Microbial Electrolysis Cell | Pengerusi J/K Penyeliaan | Sedang maju |
| 4 | 2015- | Ibdal Satar | Sel mikrobial elektrolisis | Main Supervisor | Ongoing |
| 5 | 2014- | Siti Mariam Bt. Daud Selfuel | Earthen Ware And Ceramic Membrane As A Separator In Microbial Fuel Cell | Chairman of Graduate Committee | Ongoing |
| 6 | 2014- | Nur Fawwaz Binti Asri | Kajian Keberaliran Elektrik Plat Dwikutub Logam Untuk PEMFC Di Dalam Aplikasi Automotif | Member of Graduate Committee | Ongoing |
| 7 | 2014- | Masniza Binti Mohamed @ Mahmood | Ekstraksi dan Penentuan Orthosiphon stamineus(OS) menggunakan hidropenyulingan yang dibantu Kesan Ohm | Main Supervisor | Ongoing |
| 8 | 2014- | Lee Pak Hoe | Membran Penukar Proton Berasaskan Ko-polimer Berasaskan Polibenzimidaksole (Spbi) Bagi Aplikasi Sel Fuel For Fuel Cell Applications | Member of Graduate Committee | Ongoing |
| 9 | 2013- | Syahir Bin Samsuddin | Sistem Kawalan bagi Kenderaan Sel Fuel | Member of Graduate Committee | Ongoing |
| 10 | 2013- | Nasrin Binti Sulaiman | Sistem Pengurusan Tenaga bagi Kenderaan Sel Fuel | Member of Graduate Committee | Ongoing |
| 11 | 2013- | Lim Bee Huah | Reka Bentuk, Simulasi, Pembikinan dan Penilaian Prestasi Stel Sel Fuel membran penukar proton 5 kW | Member of Graduate Committee | Ongoing |
| 12 | 2013- | Nurhazira Azly Binti Minhat | Sel Fuel Mikrobial | Chairman of Graduate Committee | Withdrawn |
| 13 | 2013- | Tahereh Jafari | A Novel Technology for Hydrogen Production From Organics Matters in a Microbial Electrolysis Cell (MEC) | Main Supervisor | Ongoing |

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|----|-------------|--------------------------------|---|--------------------------------|----------|
| 14 | 2013- | Suhaila Binti Abdullah | Peningkatan Pembelahan Molekul Air Fotoelektrokimia Dengan Pewarna Semulajadi Daripada Buah Naga | Member of Graduate Committee | Ongoing |
| 15 | 2013- | Fathie Binti Ahmad Zakil | Kajian Dinamik Sel Fuel Langsung Metanol | Co-Supervisor | Ongoing |
| 16 | 2012- | Liew Kien Ben | Manganese oxide-carbon nanotubes nanocomposite as catalyst for oxygen reduction and POME treatment in microbial Fuel Cell | Chairman of Graduate Committee | Ongoing |
| 17 | 2013- | Shiva Sadeghi Louyeh | Synthesis And Characterization Of Metal Coated Carbon Nanofiber For Hydrogen Storage | Co-Supervisor | Ongoing |
| 18 | 2012- | Fathie Binti Ahmad Zakil | Dynamic studies of direct methanol fuel cell | Co-Supervisor | Ongoing |
| 19 | 2012- | Suhaila Binti Abdullah | Synthesis and optimization of different type of fuel cells for different application | Member of Graduate Committee | Ongoing |
| 20 | 2012- | Najua Delaila Binti Tumin | Kawalan Poliform Dan Penghabluran Asid Amino Dalam Pengering Sembur Skala Perintis | Main Supervisor | Ongoing |
| 21 | 2012- | Toh Shaw Yong | Sintesis dan Pencirian Elektromangkin Berasaskan Grafena Baru bagi Aplikasi Sel Fuel Metanol Langsung | Co-Supervisor | Ongoing |
| 22 | 2012- | Leong Jun Xing | Novel nano-composite speek membrane in microbial fuel cell for waste water treatment and continuous power generation | Chairman of Graduate Committee | Ongoing |
| 23 | 2012- | Haslina Binti Ahmad | Elektrod hibrid untuk sel fuel metanol dengan bantuan cahaya | Member of Graduate Committee | Ongoing |
| 24 | 2011- | Mohd Nashriq B. Nasharudin | Analisis of microfluidic fuel cells - modeling & simulation. | Co-Supervisor | Ongoing |
| 25 | 2011- | Nabila Binti A. Karim | Mankin Cobalt Ftalodianina/karbon-Tungsten Pksida Nanowayar (W18O49) Untuk Katol Sel Fuel Metanol Langsung (DMFC) | Co-Supervisor | Ongoing |
| 26 | 2011- | Norhafiz Bin Hashim | Rekabentuk, fabrikasi dan pengoptimuman sel fuel metanol langsung | Co-Supervisor | Ongoing |
| 27 | 2011- | Azlyana Binti Ismail | Synthesis and Optimisation of Direct Methanol Fuel Cells via Cell Network | Co-Supervisor | Ongoing |
| 28 | 2011- | Dang Sri Ayu Binti Abdul Halim | Biofilem dalam anod sel fuel mikrobial | Main Supervisor | Ongoing |
| 29 | 2010- | Azran Bin Mohd Zainoodin | Lapisan Berliang Nanogentian Karbonuntuk Sokongan Elektrod Anod Dalam Sel Fuel Metanol Langsung Pasif | Member of Graduate Committee | Ongoing |
| 30 | 2010 – 2013 | Wong Wai Yin | Sintesis dan Pencirian Nanotub Karbon Terdop Nitrogen Sebagai Mangkin Katod untuk Aplikasi Sel Fuel | Main Supervisor | Finished |
| 31 | 2010 - 2013 | Thiam Hui San | Membran Nanokomposit Nafion/SiO ₂ -Pd untuk Aplikasi Sel Fuel Metanol Langsung | Main Supervisor | Finished |
| 32 | 2010-2015 | Sahriah Binti Basri | Pembangunan Mangkin Berstruktur Nano Untuk Sel Fuel Metanol Langsung | Co-Supervisor | Finished |
| 33 | 2010-2014 | Dedi Rohendi | Pembangunan Himpunan Elektrod Membran Ketumpatan Arus Tinggi | Co-Supervisor | Finished |

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|----|-------------|----------------------------------|--|-----------------|-----------|
| | | | untuk PEMFC Mudah Alih | | |
| 34 | 2010-2015 | Nurul Fitriah Binti Nasir | Pemodelan dan Pengoptimuman Proses Biodiesel Selanjar dan Sesekumpul Menggunakan Mangkin Homogen dan Heterogen | Main Supervisor | Finished |
| 35 | 2009 - 2013 | Mulyazmi | Pengembangan Metodologi Reka Bentuk Proses Sistem Sel Fuel Membran Penukar Proton Untuk Pencapaian Prestasi Optimum | Main Supervisor | Finished |
| 36 | 2009 - 2014 | Erni Misran | Pemodelan dan Simulasi Pemindahan Air Di Sepanjang Alur Aliran Gas Sel Fuel Membran Penukar Proton | Main Supervisor | Finished |
| 37 | 2009 - 2014 | Asma M Husin Milad | Photocurrent Enhancement of Titania Nanotubular Arrays By Doped and Hetero Nanocomposite With Non Metal and Metal Oxide For Photoelectrochemical Water Splitting | Main Supervisor | Finished |
| 38 | 2009-2009 | Majid Talebi Esfandarani | Photoelectrochemical cell for hydrogen production | Main Supervisor | Withdrawn |
| 39 | 2009 - 2013 | Samaneh Keshani | Deposition of Sugar, Fat and Protein-Rich Food Materials in Pilot Scale Spray Drye | Main Supervisor | Finished |
| 40 | 2009 - 2010 | Soo Chan Wai | Producing hydogen gas from salt water through radiofrequency | Co-Supervisor | Withdrawn |
| 41 | 2008 – 2012 | Nader Mokhtarian Mohammad Sadegh | Microbial Fuel Cells Development for Detection of Electrochemical Potential and Low Voltage Electricity | Main Supervisor | Finished |
| 42 | 2008-2009 | Mohd Shaiful Ramze Bin Endut | Crystallization Process of Pharmaceuticals and Macromolecules (Protein) | Main Supervisor | Withdrawn |
| 43 | 2008 – 2012 | Ifa Puspasari | Hydrodynamic and Drying Characteristics of Oil Palm Frond Particles in An Agitated Fluidized Bed Dryer | Main Supervisor | Finished |
| 44 | 2008 - 2013 | Dedikarni Bin Panuh | Penyediaan dan Pencirian Sel Butang Tunggal Elektrolit Dwi Lapisan Sm _{0.2} Ce _{0.8} I _{1.90} (SDC)/Y _{0.25} Bi _{0.75} O _{1.5} (YSB) Bagi Sel Fuel Oksida Pepejal Bersuhu Sederhana dan Rendah | Co-Supervisor | Finished |
| 45 | 2008 - 2012 | Khuzaimah Arifin | Kompleks Dwilogam Rutenium - Tungsten Sebagai Bahan Pemeka Pewarna Bagi Sel Fotoelektrokimia Pembelahan Molekul Air. | Co-Supervisor | Finished |
| 46 | 2008 – 2010 | Fadhli Hadana Rahman | Fotoelektral Untuk Penghasilan Hidrogen | Co-Supervisor | Withdrawn |
| 47 | 2008 - 2012 | Jarot Raharjo | Sintesis dan Pencirian Elektrolit Ce _{0.8} Sm _{0.2} O _{2-δ} (Li/Na) ₂ CO ₃ Dengan Kaedah Pensinteran Tanda Tekanan Untuk Sel Fuel Oksida Pepejal Bersuhu Sederhana. | Main Supervisor | Finished |
| 48 | 2006-2010 | Mustafa I Fadhel | Studies on a Solar Assisted Chemical Heat Pump Dryer | Co-Supervisor | Finished |
| 49 | 2006-2010 | Mohammad Ahmad Najib Batiha | Modelling The Environmental Fate and Impact of Non-Volatile Organic Agro-Chemicals | Co-Supervisor | Finished |
| 50 | 2006- | Mariam Firdhaus | Microwave-Assisted Drying of Pitaya | Main | Finished |

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|----|-------------|----------------------------|--|-----------------|-----------|
| | 2009 | Binti Mad Nordin | (Hylocereus) Slices | Supervisor | |
| 51 | 2006-2009 | Woo Meng Wai | Product Deposit Reduction in Spray Dryers | Main Supervisor | Finished |
| 52 | 2006 – 2014 | Umi Azmah Asran | Pembangunan Sel Fuel etanol Langsung (DMFC) Mikro dengan Teknologi Sistem Mikro-Elektro-Mekanikal (MEMS) | Main Supervisor | Finished |
| 53 | 2006-2012 | Lorna Binti Jeffery Minggu | Pembelahan Air Fotoelektrokimia dengan Semikonduktor Oksida Logam dalam Sistem Fotoreaktor | Main Supervisor | Finished |
| 54 | 2004-2010 | Mahreni Akhmad | Sintesis dan Penggunaan Membran Komposit Sebagai Elekrolit Sel Fuel Membran Penukar Proton | Co-Supervisor | Finished |
| 55 | 2004-2007 | Yusri bin Yusup | Struktur Lapisan Permukaan Atmosfera di Kawasan Perinudtrian Khatulistiwa | Main Supervisor | Finished |
| 56 | 2004-2008 | Rosnah Bt Shamsudin | Sifat-Sifat Fizikal-Kimia, Terma, Mekanikal dan Reologi Ananas Comosus I (Varieti Josaphine) | Main Supervisor | Finished |
| 57 | 2004-2010 | Tjukup Marnoto | Reka Bentuk, Operasi Dan Kawalan Untuk Sistem Tenaga Hidrogen Suria Tersambung Grid | Main Supervisor | Finished |
| 58 | 2004 – 2012 | Nornizar Bt Anuar | Behaviour of Aqueous Solution, Crystallisation and Characterisation of L-isoleucine. | Main Supervisor | Finished |
| 59 | 2004–2009 | Shahnaz Mansouri Jajaei | Extraction of Essential Oils From Herbs using Supercritical Fluid Method | Main Supervisor | Finished |
| 60 | 2004–2009 | Soraya Hosseini | Synthesis of Proton Conductive Membrane Using Cesium Diposphosphate Nanoparticles for the Fabrication of Membrane Electrode Assembly for Fuel Cells | Co-Supervisor | Finished |
| 61 | 2002 - 2005 | Ramli Sitanggang | Pembuatan Himpunan Elektrod Membran Sel Bahan Api Menggunakan Kaedah Semburan | Co-Supervisor | Finished |
| 62 | 2002–2003 | Haider O Mahmood Al-Mahdi | Optimization of MEA Coating Process By Screen Printing | Main Supervisor | Withdrawn |
| 63 | 2002-2010 | T.Husaini | Membran Reaktor Penghasilan Gas Hidrogen. | Main Supervisor | Finished |
| 64 | 2002-2005 | Siti Kartom Bt Kamarudin | Sintesis Proses dan Reka Bentuk Optimum Untuk Rangkaian Reaktor-Pemisah Menggunakan Kaedah Algoritma | Main Supervisor | Finished |
| 65 | 2002-2005 | M. Rusli Yosfiah | Model Kinetik dan Pengoptimuman Penghasilan Gas Hidrogen Daripada Metanol dengan Menggunakan Mangkin Ni, Cu, Mo/Gamma Al ₂ O ₃ | Main Supervisor | Finished |
| 66 | 2001-2004 | Muhammad Yahya | Sistem Penyahlembapan Terbantu Suria untuk Herba Perubatan | Co-Supervisor | Finished |
| 67 | 2002 – 2007 | Edy Herianto | Penulenan Gas Hidrogen Menggunakan Sistem Jerapan Buai Tekanan Terpadat Untuk Sel Bahan Api | Main Supervisor | Finished |
| 68 | 1999-2003 | Bambang Trisakti | Pengeringan Terpilih Serbuk | Main Supervisor | Withdrawn |
| 69 | 1999-2003 | Rosdanelli Hasibuan | Pengeringan Gentian Tandan Kosong Kelapa Sawit Menggunakan Sistem | Main Supervisor | Finished |

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|----|-----------|------------------------------|--|-----------------|-----------|
| | | | Pengerigan Telus Stim Panas Lampau | | |
| 70 | 1999–2002 | Yeoh Hak Koon | Kajian Fotoelektrod Tersensitasi Pewarna Untuk Pengeluaran Hidrogen Melalui Fotolektrolisis-tidak-terbantu Air | Main Supervisor | Withdrawn |
| 71 | 1999–2003 | Law Chung Lim | Pembendaliran: Hidrodinamik dan Penggunaannya dalam Proses Pengeringan | Main Supervisor | Finished |
| 72 | 1998–2002 | Muhammad Turmuzi | Pembuatan Karbon Teraktif dan Karbon Penapis Molekul daripada Tempurung Buah Keras | Main Supervisor | Finished |
| 73 | 1998–2002 | Taslim | Fenomena Pengangkutan Aliran Berayun dalam Turus Bersesekat | Co-Supervisor | Finished |
| 74 | 1997–2001 | Ye Lwin @ Mohammed Husein | Characterization of Cu-Al Hydrotalcite-Derived Mixed Oxide for Hydrogen Production by Steam-Methanol Reforming | Main Supervisor | Finished |
| 75 | 1997–2000 | Supranto | Reka Bentuk dan Penilaian Sistem Pengeringan Terbantu Suria Dua Laluhan dengan Media Berliang | Main Supervisor | Finished |
| 76 | 1997–2002 | Widayanti | Fenomena Pengelutan Zarah dari Turus Lapisan Terbendalir | Co-Supervisor | Finished |
| 77 | 1997–1998 | Gunarto | Pemodelan Matematik Sistem Penjerapan Buai Suhu | Main Supervisor | Withdrawn |
| 78 | 1996–2002 | Meor Zainal Bin Meor Talib | Pemodelan dan Simulasi untuk Sel Bahan Api bermembran Elektrolit Polimer | Main Supervisor | Finished |
| 79 | 1996–2001 | Tin Mar Kyi | Drying with Chemical Reaction in Cocoa Bean Drying | Main Supervisor | Finished |
| 80 | 1996–1996 | Muhammad Niazul Haque Sarker | Design of Proton Exchange Membrane Fuel Cell Stack | Main Supervisor | Withdrawn |
| 81 | 1996–1996 | Khaled El-Alem | Heat Transfer in Proton Exchange Membrane Fuel Cell | Main Supervisor | Withdrawn |
| 82 | 1996–1996 | Abdul Salam Uheida | Novel Gas Diffusion Electrode for Proton Exchange Membrane Fuel Cell | Main Supervisor | Withdrawn |
| 83 | 1995–1999 | Sunny lyuke Esayebemu | Pressure Swing Adsorption of Hydrogen | Main Supervisor | Finished |
| 84 | 1992–1996 | Sam Myint | Extraction of Eugenol from clove | Main Supervisor | Finished |
| 85 | 1989–1994 | Mahamad Hakimi Ibrahim | Drying of Oil Palm Kernels | Main Supervisor | Finished |
| 86 | 1988–1990 | Ibrahim Shouib | Numerical Simulation of a Rotating Boiler | Main Supervisor | Withdrawn |

List of MSc Students' Thesis

| No. | Period | Student | Title of Thesis | Supervisory role | Status of student |
|-----|--------|-----------------------------|---|------------------------------|-------------------|
| 1 | 2016 | Ahmad Tajuddin Bin Abdullah | Sel Fuel Membran Penukar Proton (Pemfc) Sistem Penyejukan Air | Member of Graduate Committee | Ongoing |

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|----|-------------|----------------------------------|---|--------------------------------|--------------|
| 2 | 2016 | Shuaiba Binti Samad | Mangkin DMFC | Co-Supervisor | Ongoing |
| 3 | 2015 | Mohd Azri Ahmad | Stainless steel electrode for MFC | Main Supervisor | Ongoing |
| 4 | 2014- | Siti Mariam Bt. Daud Selfuel | Screening Of Earthen Ware And Ceramic Membrane As A Separator In Microbial Fuel Cell | Chairman of Graduate Committee | Ongoing |
| 5 | 2014- | Nurul I'Zzati Binti Baharul Wafi | Development Of Lithium Ion Phosphate Battery Based On Immobilization Of Lithium Iron Phosphate Into Poly(2-Hydroxylethyl Methacrylate) As A Gel Electrolyte | Co-Supervisor | Ongoing |
| 6 | 2014- | Badrullzamin Bin Mohd Yassin | Mengkuang Composite for car bodies | Co-Supervisor | Ongoing |
| 7 | 2013- | Mohd Azwan Bin Husin | Penggunaan bahan eco-komposit (komposit diperkuat gentian mengkuang)untuk komponen badan kereta sel fuel. | Member of Graduate Committee | Ongoing |
| 8 | 2013- | Muhamad Norfaiz Bin Faisal | Converter And Control Design For Fuel Cell Hybrid Electric Vehicle Application | Co-Supervisor | Ongoing |
| 9 | 2013- | Joy Liew Wei Yi | Membran Polimer Elektrolit Berasaskan K-Karagenan dan K-Karageenan Terfosforil Untuk Aplikasi Sel Fuel | Co-Supervisor | Ongoing |
| 10 | 2013- | Soo Li Ting | Sintesis dan Pencirian Elektromangkin Berasaskan Logam Peralihan dan Nitrogen Didopkan Grafin Untuk Tindak Balas Penurunan Oksigen | Member of Graduate Committee | Ongoing |
| 11 | 2013- | Norsyaidatul Binti Ibrahim | Production of Biomethanol from Photoelectrochemical reaction of Biomass | Member of Graduate Committee | Ongoing |
| 12 | 2012- | Mumtazah Atiqah Binti Hassan | Development of sensor in DMFC | Chairman of Graduate Committee | Tukar ke PhD |
| 13 | 2012- | Leong Jun Xing | Novel nano-composite speek membrane in microbial fuel cell for waste water treatment and continuous power generation | Main Supervisor | Finished |
| 14 | 2012-2014 | Liew Kien Ben | Manganese oxide-carbon nanotubes nanocomposite as catalyst for oxygen reduction and POME treatment in microbial Fuel Cell | Main Supervisor | Ongoing |
| 15 | 2011-2015 | Mohd Zul Fadli Kamaruddin | Pembangunan Tangki Simpanan Pasif untuk Sel Fuel Metanol Langsung Pasif | Main Supervisor | Finished |
| 16 | 2010 -2015 | Siti Afiqah Binti Abd Hamid | Reka Bentuk Dan Pembangunan Sistem Pengurusan Kuasa Hibrid Sel Fuel, Superkapasitor, Dan Bateri Untuk Aplikasi Kenderaan | Main Supervisor | Finished |
| 17 | 2010 -2014 | Ros Emilia Binti Rosli | Pembangunan Sistem Kawalan Hidrogen untuk Stek PEMFC | Co-Supervisor | Finished |
| 18 | 2009 -2012 | Miftah Kurniawan | Kesan Tekanan Pemasangan Stek Terhadap Prestasi Sel Fuel Membrane Penukaran Proton. | Co-Supervisor | Finished |
| 19 | 2008 - 2009 | Sahriah Binti | Pembangunan Peranti Reka Bentuk | Co- | Withdrawn |

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|----|-------------|---------------------------|---|-----------------|-----------|
| | | Basri | Untuk Sel Fuel Metanol Langsung | Supervisor | |
| 20 | 2008 – 2010 | Mismisuraya Bt Meor Ahmad | Pembangunan Sel Fuel Metanol Langsung Untuk Kegunaan Mudah Alih | Co-Supervisor | Finished |
| 21 | 2008 - 2010 | Muhammad Shahid | Simulation of Complete Fuel Cell Systems | Main Supervisor | Finished |
| 22 | 2008 - 2010 | Norhafiz B Hashim | Rekabentuk Dan Fabrikasi Sel Fuel Mikro Metanol Langsung. | Co-Supervisor | Finished |
| 23 | 2008 –2011 | Lim Swee Su | Pengoptimuman Penghasilan Kuasa elektrik Dari Sel Fuel Mikrob (SFM) Berasaskan Kultur Campuran Dan Kultur Tunggal. | Co-Supervisor | Finished |
| 24 | 2008-2010 | Haslina Binti Ahmad | Membran Hibrid Nafion/Polibenzimidazol /Zirkonium Fosfat untuk Aplikasi SFML | Co-Supervisor | Withdrawn |
| 25 | 2008 –2010 | Achmad Fauzie | Pembangunan Sel Fuel Metanol Langsung Sebagai Pengecas Telefon Mudah Alih. | Main Supervisor | Finished |
| 26 | 2008 –2010 | Nanda Sastaviana | Solid oxide fuel cell (SOFC) | Co-Supervisor | Withdrawn |
| 27 | 2007 - 2009 | Noorashrina Binti A Hamid | Pembangunan Katod $La_{1-x}Sr_xCo_{0.2}Fe_{0.8}O_3$ (LSCF) Bagi Sel Fuel Oksida Pejal Bersuhu Sederhana (IT-SOFC) | Main Supervisor | Finished |
| 28 | 2004 – 2005 | Wong Kuek Keong | CFD simulation of separation | Main Supervisor | Finished |
| 29 | 2004 - 2007 | Shuhaida Binti Harun | Pembahunan Sistem Penasihat Reka Bentuk Untuk Reka Bentuk Konsep Loji dan Proses Kimia | Co-Supervisor | Finished |
| 30 | 2003 – 2005 | Nor Roslina Binti Rosli | Pengekstrakan Minyak Serai Wangi (Cymopogonna Nardus) Secara Pengekstrakan Bendalir Lampau Genting | Co-Supervisor | Finished |
| 31 | 2003 - 2006 | Khuzaimah Arifin | Sintesis Organik,Pencirian dan Kestabilan Foto Kompleks Tris(Diotelena) Tunsten | Co-Supervisor | Finished |
| 32 | 2003-2006 | Fadhli Hadana Rahman | Sintesis Takorganik Kompleks Tris(Diotelena) Tunsten Sebagai Ftomangkin Bagi Fotolisis Air | Co-Supervisor | Finished |
| 33 | 2003-2006 | Navriani Harahap | Kesan Tekanan Dalam Pengoptimuman Suhu Ke Atas Pembikinan Himpunan Elektrod Membran | Main Supervisor | Finished |
| 34 | 2002 - 2004 | Zahiruddin Bin Mohamed | Kesan Suhu Tinggi ke Atas Hidrodinamik Pembendaliran dan Pengirigan Zarah Dalam Lapisan Terbendalir | Main Supervisor | Finished |
| 35 | 2002 - 2005 | Elradi Adam Musa | Heat Transfer in Proton Exchange Membrane Fuel Cell | Main Supervisor | Finished |
| 36 | 2002 - 2004 | Azman Yazid | Reka Bentuk Konsep Sistem Sel Bahan Api Eelektrolit Polimer dengan Modul Membran Seramik Menggunakan Perisian Simulasi Proses HYSYS | Main Supervisor | Finished |
| 37 | 2002 - 2004 | Loke Yan Kai | Reka Bentuk Sistem Sel Bahan Api Jenis Membran Elekrolit Polimer Dengan Perisian Simulasi HYSYS | Co-Supervisor | Finished |
| 38 | 2002 - 2004 | Masli Irwan Bin Rosli | Prestasi Sel Bahan Api Membran Pertukaran Proton - Pemilihan Reka | Main Supervisor | Finished |

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|----|-------------|-----------------------------------|---|-----------------|-----------|
| | | | Bentuk Plat Laluan | | |
| 39 | 2002 - 2004 | Mimi Hani Binti Abu Bakar | Proses Penyediaan Mangkin Platinum di atas Substrat Karbon Teraktif Tempatan Menggunakan Teknik Isitepu | Main Supervisor | Finished |
| 40 | 2002 - 2003 | Mohd Shahbudin Bin Mastar @Masdar | Pembangunan Model Matematik dan Kajian Parameter Sel Bahan Api Membran Elektrolit Polimer | Co-Supervisor | Finished |
| 41 | 2002 - 2004 | Nik Suhaimi Bin Mat Hassan | Pembangunan Model Matematik bagi Pemindahan Jisim Air dalam Sel Bahan Api Membran Elektrolit Polimer | Main Supervisor | Withdrawn |
| 42 | 2002 - 2004 | Mustafa I Fadhil | Solar Hydrogen Production System | Co-Supervisor | Finished |
| 43 | 2002 – 2005 | Vickneswaran S/O M.Veloo | Optimization of Batch Drilling Fluids/Mud Mixing Plant | Main Supervisor | Finished |
| 44 | 2002 - 2004 | Souiyah Miloud | Performance of Proton Exchange Membrane Fuel Cell with Interdigitated Flowfield | Co-Supervisor | Finished |
| 45 | 2002 - 2004 | Ng Pin Pin | Pengerigan Padi dalam Lapisan Terpancut | Co-Supervisor | Finished |
| 46 | 2001 - 2004 | Lorna Binti Jeffery Minggu | Penghasilan Hidrogen Daripada Pembentukan Semula Metanol | Main Supervisor | Finished |
| 47 | 2001 - 2003 | Mohd Sabri Bin Mahmud | Penyediaan dan Pencirian Mangkin Cu-Zn-V-Al Dalam Pembentukan Semula Autoterma Metanol | Main Supervisor | Withdrawn |
| 48 | 2000 - 2002 | Mohd Nahar Bin Othman | Pemusnahan Benzena (Bahan Organik Mudah Meruap) Menggunakan Kaedah Alur Elektron | Main Supervisor | Finished |
| 49 | 2000 – 2002 | Abdol Salam Bin Ns Mohd Sariff | Pengoptimuman Proses Loji Pemprosesan Gas | Main Supervisor | Finished |
| 50 | 1999-2002 | Eman Noori Ali | Sampling and Analysis of Volatile Organic Compounds in Ambient Air in Malaysia | Main Supervisor | Finished |
| 51 | 1999 - 2002 | T.Husaini | Penyampelan dan Analisa Statistik Sebatian Organik Meruap di Kawasan Lembah Kelang | Co-Supervisor | Finished |
| 52 | 1999 - 2001 | Islina Binti Kamaruzaman | Keseimbangan Jerapan Alkana-alkana Berberat Molekul Rendah Ke Atas Karbon Teraktif dan Penapis-Penapis Molekul | Main Supervisor | Finished |
| 53 | 1998 - 2000 | Law Chung Lim | Pengiringan Bagi Zarah Halus Dari Pengelut Terbendaril Sesekumpul | Main Supervisor | Finished |
| 54 | 1999 - 2002 | Norliza Binti Abd Rahman | Penalaan Pengawal Lazim PID ke Atas Menara Penyulingan Dengan Kaedah Logik Kabur | Main Supervisor | Finished |
| 55 | 1998 - 2000 | Edy Herianto | Penjerapan Sebatian Organik Mudah Meruap Menggunakan Sistem Jerapan Buiaan Terma | Main Supervisor | Finished |
| 56 | 1998 - 2000 | Chebbi Rachid | Fabrication of Low Platinum Loading Elektrode for Proton Exchange Membrane Fuel Cell System | Main Supervisor | Withdrawn |
| 57 | 1998 - 2000 | Ma'an Fahmi Rashid Al Khatib | Surface Modification of Activated Carbon by Impregnation with $\text{SnCl}_2 \cdot \text{H}_2\text{O}$ for Purification of H_2/CO Gas Mixture | Co-Supervisor | Finished |
| 58 | 1997-1997 | Loo Yong Eng | Pencirian Elektrodialiser | Main | Finished |

| | | | | Supervisor | |
|----|-----------|------------------------------|---|-----------------|-----------|
| 59 | 1997-2000 | Monsurah Begum | Preparation and Characterisation of Cu-Al Catalysts for Steam-Methanol Reforming Reaction | Main Supervisor | Withdrawn |
| 60 | 1996-1998 | Fathi Abdul Aziz Messaud | Characterisation of Asahi Membrane using X-ray Photoelectron Spectroscopy | Main Supervisor | Finished |
| 61 | 1996-1996 | Ahmad Sadik Hassan | Electrode Catalyst for Methanol Conversion to Hydrogen | Main Supervisor | Finished |
| 62 | 1995-1997 | Muhammad Hazza Rasheed | Characterization of Solid Polymer Electrolytic Membrane Nafion117 by X-Ray Photoelectron Spectroscopy | Main Supervisor | Finished |
| 63 | 1993-1996 | Muhammad Niazul Haque Sarker | Drying Characteristics of Paddy | Main Supervisor | Finished |
| 64 | 1990-1994 | Meor Zainal Bin Meor Talib | Ciri-ciri Pengeringan Bijji Koko | Main Supervisor | Finished |
| 65 | 1986-1987 | Zakaria Omar | Pengeringan Bijji Sawit | Main Supervisor | Withdrawn |

List of Undergraduate Students' Thesis

| No. | Year | Name | Title |
|-----|------|--------------------------------|--|
| 1 | 2016 | Norsyafika Binti Hassim | Permodelan Dan Simulasi Mikrobial Sel Fuel Untuk Penghasilan Kuasa Elektrik |
| 2 | 2016 | Nur Amera Binti Mohamad Bakri | Permodelan dan simulasi sel mikrobil elektrolisis |
| 3 | 2015 | Ying Ying Ch'ng | Sintesis membrane komposit baru bagi kegunaan sel fuel |
| 4 | 2015 | Fatimah Azzahra | Sintesis membrane komposit baru bagi kegunaan sel fuel |
| 5 | 2014 | Nurul Nadia Nga | Penyediaan, Pencirian Dan Pengujian Fotoelektrod Bagi Bateri Boleh Cas Semula |
| 6 | 2014 | Noor Zaiyan Misyan | Tindak balas fotokatalisis efluen kilang minyak sawit (POME) bagi penghasilan hidrogen hijau |
| 7 | 2013 | Tan Eng Lee | Membran polimer elektrolit berdasarkan blok kopolimer untuk aplikasi sel fuel. |
| 8 | 2013 | Dahiyah Binti Mohd Fadzillah | Komposit membran asid pepejal untuk sel fuel bersuhu perantaraan |
| 9 | 2012 | Mohd Kamaruzzaman Bin Mat Daud | Penganggaran Pekali Serapan Air yang Boleh-ubah daripada Data Kadar Pengeringan |
| 10 | 2012 | Normalayati Binti Mahmad Raseh | Ketepilihan dan Ruang Pecapaian Metil Ester dan Gliserol dalam Tindak Balas Trans-Esterifikasi Pelbagai Minyak Makan dan Tak Boleh Dimakan bagi Menghasilkan Biodiesel |
| 11 | 2011 | Norbaini Binti Bahtiar | Penentuan Saiz (Luas Permukaan) Membran dan Masa Proses bagi Modul Osmosis Terbalik Beraliran Silang yang Berkitar Semula |
| 12 | 2011 | Mohamad Zulhairi Bin Ibrahim | Pemodelan dan Simulasi Rangkaian Kuasa Kereta Bugi Golf yang Dipacu Sel Fuel |
| 13 | 2010 | Lee Seet Yee | Pemerangkapan Karbon Menggunakan Penjerapan Ke Atas Kapur |
| 14 | 2010 | Farhan Bin Mohd Pozi | Simulasi Aliran dalam Sel Fuel menggunakan CFD |

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|----|------|-----------------------------------|---|
| 15 | 2008 | Ong Hee Hwee | Pengeringan Cip Gentian Pelepas Sawit dengan Pengering Lapisan Terbendalir Bergetar |
| 16 | 2008 | Mary Khoo | Pelembap Udara Membran bagi Sistem Sel bahan Api |
| 17 | 2007 | Awis bin Zakaria | Permodelan dan Simulasi Iaji Proses Kimia |
| 18 | 2007 | Yeap Kim Gaik | Pengeringan Sumber Ekstraksi The |
| 19 | 2007 | Chua Ynyen A | Ekstraksi Lampau Genting Likopena daripada Pulpa Jambu Batu Merah Buangan |
| 20 | 2006 | Wong Wai San | Pengeringan Buah Jambu Kampuchea (psidium guajava) dalam Kebuk Pengeringan |
| 21 | 2006 | Ong Chin Hooi | Pengeringan Stim Gentian Kenaf |
| 22 | 2006 | The Shu Yi | Pengeringan Hirisan Buah Mangga dalam Kebuk Pengeringan |
| 23 | 2005 | Awis Bin Zakaria | Permodelan dan Simulasi Dinamik Loji Proses |
| 24 | 2005 | Fara Fazreena Binti Zulkifli | Penghasilan Zarah Nano Dengan Menggunakan Proses Anti Pelarut Supergenting |
| 25 | 2005 | Chin Sui Kem | Pengeringan Berbagai Herba |
| 26 | 2005 | Yeo Thian Soon | Pengeringan Cili dengan Lapisan Terpanct |
| 27 | 2005 | Khoo Boon Ken | Alat Nauta Mixer sebagai Alat Penggalak Aliran |
| 28 | 2004 | Mohd Fadzly Bin Ariffin | Penghasilan komputer untuk penghasilan bentuk modul membran ultraturasan dan osmosis terbalik |
| 29 | 2004 | Zarirah Binti Mohamad Yusof | Pengeringan ekstrak herba Andrographis |
| 30 | 2004 | Chan Chee Wai | Pengeringan Herba Andrographis |
| 31 | 2003 | Aliza Binti Surip | Permodelan dan penyelakuan pengangkutan jisim dan haba utk biji koko menggunakan pendekatan multi fizik |
| 32 | 2003 | Naimatul Fitriyah Binti Mohamad | Pengeringan Produk Tanah liat |
| 33 | 2003 | Norhaslina Binti Mohd Sidek | Susuk suhu pepejal suhubebuli kering suhu bebuli basah kelembapan udara dan kandungan lembapan pepejal di dalam pengeringan lapisan terbendalir aliran silang |
| 34 | 2003 | Eng Kok Hoe | Pengeringan Sembur Susu Soya |
| 35 | 2003 | Low Ee Mee | Kembangan sistem pemisahan H2/CO2 dengan membran paladium |
| 36 | 2002 | Shafiza Binti Zakaria | Reka Bentuk Konsep Sistem Sel Bahanapi |
| 37 | 2002 | Zarin B Zid | Proses Pembentukan Zarah Gelatin dan Pengeringannya |
| 38 | 2002 | Cheah Hui Ming | Pengeringan Beras Pulut Di dalam Turus Terbendalir Bagi Aplikasi Industri |
| 39 | 2002 | Farmasuhaini Binti Mohd | Pengeringan Stim Beras |
| 40 | 2002 | Mohd Asmawi Syahrulnizam Bin Mohd | Pengeringan Beberapa Bahan Berkabohidrat |
| 41 | 2002 | Mohd Shohib Bin Talib | Pengoptimuman Proses Ssesekumpul |
| 42 | 2002 | Cheah Hui Ming | Pengeringan Beras Pulut |
| 43 | 2001 | Mohd Asmawi Syahrulnizam B Mohd | Pengeringan Gelatin |
| 44 | 2001 | Nik Suhaimi Bin Mat Hassan | Pengoptimuman Proses Sesekumpu |
| 45 | 2001 | Pasilatun Adawiyah Binti Ismail | Pengeringan Stim Padi |
| 46 | 2000 | Tan Kok Han | Reologi Larutan Bergelatin |
| 47 | 2000 | Yap Mee Foong | Penjadualan Kawalan Proses Sesekumpul Dua Peringkat |
| 48 | 2000 | Zahiruddin B Mohamed | Penghasilan Karbon Teraktif daripada Tempurung Kelapa Sawit dengan Tindak Balas Kimia untuk Menjerap Gas Hidroklorik |
| 49 | 1999 | Chan Chiaw Fang | Reka Bentuk Ringkas Penjerap |
| 50 | 1999 | Kew See Shin | Pengoptimuman Proses Sesekumpul |

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|----|------|---------------------------------|---|
| 51 | 1999 | Ahmad Firdaus Bin Mat Taib | Reologi Makanan |
| 52 | 1998 | Azlan Kahalil | Pencirian dan Penoperasian Turus Penyulingan |
| 53 | 1998 | Yong Hong Sin | Simulasi Aliran dalam Stek Sel Bahan Api |
| 54 | 1998 | Hazrein A. Hamid | Kajian Aliran Elektrolit di dalam Reruang untuk Sistem Penghasilan Hidrogen Secara Hidrogen Suria |
| 55 | 1998 | Khor Min Che | Pentaulahan loji Pandu Ekstraksi |
| 56 | 1998 | Werry Lipi | Kesan Peratusan Zaraf Haluske Atas Kebolehaliran Bahan |
| 57 | 1998 | Nor Farhana Mohd Aris | Pengeringan Buah-Buahan Tempatan |
| 58 | 1998 | Maizura Ibrahim | Penghasilan Hidrogen Daripada Metanol: Pencirian Mangkin Kuprum/Aluminium (III) dengan Penggalak Zn |
| 59 | 1998 | Seet Elaine | Perisian Analisis Risiko dalam Loji Pemprosesan Kimia |
| 60 | 1998 | Chan Chee Wei | Rekabentuk Sel Elektrodialisis |
| 61 | 1998 | Tee Yeow Fong | Pemncirian Mangkin Kuprum/Aluminium dengan Penggalak Mn dan Ch untuk Tindakbalas Penguraian Metanol |
| 62 | 1997 | Rafezal Mohd Said | Pemilihan Pengekstrak Multi-komponen |
| 63 | 1997 | Azzuddin | Simulasi Pengeringan dengan Tindak balas Kimia |
| 64 | 1996 | Yusnizam Yusof | Pemodelan Sel Bahan Api Polimer Pejal |
| 65 | 1996 | Wan Suriati | Membran Sel Bahan Api Polimer Pejal Baru |
| 66 | 1996 | Wong Kuek Keong | Pemodelan Pengeringan Lapisan Dalam Padi |
| 67 | 1996 | Nazri Ahmad | Simulasi Aliran Kucar-Kacir |
| 68 | 1996 | Enjang al Lanting | Ekstraksi Kucar Kacir |
| 69 | 1995 | Pang Tuck Seng | Simulasi Pemisahan Membran Gas dalam Gentian Berkelonsong |
| 70 | 1995 | Rosnah | Lokus Alah Padi pada Kandungan Lembapan Berlainan |
| 71 | 1995 | Nordin Zakaria | Penghasilan Karbon daripada Tempurung Kelapa |
| 72 | 1995 | Tan Chey Ling | Simulasi Dinamik Loji Ekstraksi Zirconium |
| 73 | 1994 | Sivakumar Subramaniam | Reka bentuk Sistem Pembentuk Semula Stim |
| 74 | 1993 | Liew Siew Loon | Kembangan Pembentuk Semula untuk Menghasilkan Hidrogen drpd Gas Asli & Stim |
| 75 | 1993 | Chong Loong How | Lokus Alah Biji Koko pada Kandungan Lembapan Berlainan |
| 76 | 1993 | Amiruddin Abd. Hamid | Pengering Koko Lapisan Bergetar |
| 77 | 1993 | Cheah Chee Mun | Luahan Hidrokarbon MultiKomponen Bertekanan Atas Takat Didih |
| 78 | 1993 | Samah Che Lamin | Kembangan Motor Roket Berbahan Dorong Pepejal |
| 79 | 1992 | Mohd. Shihabuddin b. Ismail | Penentuan Faktor Pandangan bagi Satu Objek Kecil Terhadap Satu Nyalaan Kebakaraan |
| 80 | 1992 | Azhar Ahmad | Simulasi Tumpahan Minyak |
| 81 | 1992 | Norleha bt. Mohd. Yusuff | Rekabentuk Sistem Penyampaian Pneumatik dengan Komputer |
| 82 | 1992 | Zuraimi b. Othman | Penyelesaian Masalah Pindah Haba daripada Paip Minyak Mentah Dasar Laut Menggunakan Kaedah Berangka |
| 83 | 1992 | Rohana Ahmad | Ekstraksi Yterrium |
| 84 | 1992 | Liza bt. Jaafar | Kesan Pengeringan Terhadap Tindakbalas 'Browning' Koko |
| 85 | 1992 | Lee Hong Tein | Simulasi Monte Carlo Model Tumpahan Minyak dalam Lautan |
| 86 | 1992 | Mohd. Zainuddin b. Mohd. Zainal | Rekabentuk Turus Ekstraksi Zirkonium |
| 87 | 1992 | Farok b. Maasom | Pengeringan Terbendalir Arang Batu Malaysia |
| 88 | 1991 | Halimahton bt. Baharum | Penskalaan Naik Penghasilan Kitin daripada Kulit |

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| | | | Udang |
| 89 | 1991 | Badariah bt. Manab | Penskalaan Naik Penghasilan Bromelin dari Batang Nenas |
| 90 | 1991 | Ropandi b. Mamat | Pengekstrakan Torium dengan Turus Ekstraksi Terpadat |
| 91 | 1989 | Kamaroulzaman b. Thith | Pengoptimuman Penghasilan Bromelin daripada Batang Nenas |
| 92 | 1989 | Juriah bt. Jabar | Lengkung Keseimbangan Sistem Air-Thorium-Kerosin-TBP dan Sistem Air-Uranium-Kerosin-TBP daripada Sisa Perlombongan |
| 93 | 1989 | Md. Salleh b. Kamaruddin | Pengoptimuman Proses Penghasilan Kitin daripada Kulit Udang |
| 94 | 1989 | Bita ak Ata | Simulasi Pengering Kernel Kelapa Sawit |
| 95 | 1989 | Yusof Darus | Penggunaan AutoCad dalam Penyusunan Loji |
| 96 | 1988 | Gerard Wang Chee Shoon | Dinamik dan Kawalan Penyejat Filem Memanjat QVF |
| 97 | 1988 | Raveentiram Krishna | Rekabentuk Rig bagi Penghidrogenan Selanjar Kelapa Sawit |
| 98 | 1988 | Norsham bt. Nordin | Ciri Pengeringan Padi |
| 99 | 1988 | Wan Othman b. Wan Yahya | Simulasi Kawalan Fermentor |
| 100 | 1988 | Siti Fatimah bt. Hj. Abd. Rashid | Kinetik Pengeringan Kelapa Sawit |
| 101 | 1987 | Tajul Ariffin b. Hj. Mohd. Rais | Penghasilan Kanji Pra-Digelatin dengan Pengering Lapisan Terpancut |
| 102 | 1987 | Mut Sagai | Pengaturcaraan Rekabentuk Menara Penyulingan Berplat |
| 103 | 1987 | D. S. Krishana Rao | Pembangunan Proses Pemisahan Bromelin daripada Batang Nenas |
| 104 | 1986 | Othman Darus | Rekabentuk Proses Pengeringan Lapisan terpancut |
| 105 | 1986 | Goh Eng Hooi | Ciri-Ciri Injap Kawalan |
| 106 | 1986 | Mohd. Razi b. Mohd. Toff | Reologi Kanji Beras Digelatin pada Suhu Tinggi |
| 107 | 1986 | Suhaimi b. Said | Rekabentuk Terbantu Komputer |
| 108 | 1986 | P. Govindasamy | Pemrosesan Kitin daripada Kulit Udang |
| 109 | 1985 | Beh Kok Chuan | Penyediaan Rajahaliran Proses dengan Kaedah Komputer |
| 110 | 1985 | Ku Halim Ku Hamid | Reologi Kanji Beras Digelatin pada Suhu Rendah |
| 111 | 1985 | Zakaria Omar | Penyelesaian Berangka Persamaan Pengeringan Bahan Berliang |