

CURRICULUM VITAE



1. Personal Biodata

Name : Zulkaflī bin Othaman
I/C No. : 561225-01-5079
Date of Birth : 25 December 1956
Nationality : Malaysian
Place of Birth : Teluk Ramunia, Pengerang, Johor.
Marital Status : Married
Home Address : 40 Jalan Padi Mahsuri Satu
Bandar Baru UDA
81200, Johor Bahru,
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2. Academic Qualifications

- 2.1 1996 – Doctor of Philosophy (PhD) in Physics
University of Bath
Thesis: Hydrostatic Pressure Studies of Semiconductor Heterostructures and Schottky Diodes.
- 2.2 1985 – Master of Science (Physics)
University of Oregon USA
- 2.3 1981 – Bachelor of Science with Education (Physics)
Universiti Teknologi Malaysia
- 2.4 1979 – Diploma of Science with Education (Physics)
Universiti Teknologi Malaysia

3. Professional Membership

- 3.1 Institut Fizik Malaysia (Malaysia Institute of Physics)
- 3.2 Persatuan Sains dan Teknologi Keadaan Pepejal Malaysia
(The Malaysian Solid State Science and Technology Society – MASS)

4. Working Experience

- 4.1 Physics Teacher (April 81 – July 81)
Sekolah Menengah Sri Puteri,
Jalan Kolam Air, Kuala Lumpur
- 4.2 Assistant Lecturer from Aug 81 – Aug 85)
Physics Dept., Faculty of Science, UTM
- 4.3 Lecturer - (from 1-9-1986 – 31-5-2000)
Physics Dept., Faculty of Science, UTM
- 4.4 Associate Professor (from 1-6-2000 –till now)
Physics Dept., Faculty of Science, UTM
- 4.5 Head of Physics Department, (1/10/2001 – 30/9/2005)
Faculty of Science, UTM

5. Awards

- 5.1 Anugerah Khidmat Cemerlang 2007
- 5.2 Anugerah Kepujian Universiti 1999
- 5.3 Anugerah Jasa Bakti 2001
- 5.4 Training on Nanoelectronics & PECVD systems, England & Switzerland,
17 – 28 August 2002 – Organized by Fisher Scientific Malaysia.
- 5.5 Training on MOVPE Nanostructure Growth system, Seoul, Korea 13-16 Nov 2005
- 5.6 Training on MOVPE system at Bandung Insitute of Technology, 28 Jan 08 – 3 Feb 08
- 5.7 JSPS Fellowship Exchange 1-9-98 to 30 – 9 –98

6. Administration/Additional Responsibilities

- 6.1 Chairman of Physics Programme, Ibnu Sina Insitut for Fundamental Science, 1 Nov 2009 – 31 Okt 2011.
- 6.2 Head of Physics Department, Faculty of Science (1 October 2001 – 30 Sept 2005)
- 6.3 Representative for Faculty of Science in Senate Permanent Committee for Library (April 2002– 2008)
- 6.4 Pengerusi, Panel Peperiksaan Penilaian Tahap Kecekapan Perkhidmatan Sains, 4 Jun 2003 – 31 Jun 2007
- 6.5 Pengerusi J/K Penyelidikan & Perundingan, J.Fizik, Mulai 18 Feb 2008 -
- 6.6 Ahli Jaw. kuasa Pameran & Promosi, J. Fizik, 26 Sep 2006 – 14 Mar 2008
- 6.7 Ahli J. /K Penyelarasan Penyelidikan, F.S, Feb 2008 -
- 6.8 Ahli J/K Penyelidikan & perundinganJ.Fizik, 20 Jan 2006 – 17 Feb 2008
- 6.9 Ahli J/K Induk Jaminan Kualiti F. Sains,31 Julai 2003 – 30 Sep 2005
- 6.10 Ahli J/K Persidangan Serantau Sains & Teknologi Keadaan Pepejal 2007
- 6.11 Ahli J. K. Pakar Instrumen, IIS, 19 April 2007
- 6.12 Ahli Panel Penilai Prestasi Tahunan Staf Akademik Jabatan Fizik, 15 Jan 2002
- 6.13 Ahli J/K Penilaian Teknikal Tender IDB Fokus group : Fundamental Science,
- 6.14 Ahli J.K Penyelarasan & Penilaian Teknikal Tender IDB, Fakulti Sains, 30 Jun 2004
- 6.15 AJK Penyediaan Laporan Jaminan Kualiti Akademik, Fakulti Sains, 7 April 2004
- 6.16 Ahli Jawatankuasa Akademik Jab. Fizik, 21 April 2008 – 20 April 2010
- 6.17 Ahli JK Program Sarjana Sains (Nanosains & Nanoteknologi), 31 Dis 2007
- 6.18 Ahli Jawatankuasa Kumpulan Fokus Materials & Advanced Materials 2002- 2003.
- 6.19 Ahli Jawatankuasa Penyelarasan & Penilaian Teknikal Tender IDB, 2004.
- 6.20 Penilai Bengkel Pemantauan dan Pengawasan Projek IRPA RMK8, RMC 11 Mei 2004
- 6.21 Ahli Kumpulan Kerja Penyediaan Laporan Jaminan Kualiti Akademik bagi perkara Penilaian Pelajar, Fakulti Sains 2004
- 6.22 Ahli Jawatankuasa Pengurusan Akademik – Fizik Bahan 2003
- 6.23 AJK Penentuan Teknikal Projek IDB Fasa II (Nanotechnology) Fakulti Sains, 2002
- 6.24 Chairman of organizing committee for the “XVII Regional Conference on Solid State Science & Technology 2000”
- 6.25 Member – Committee for Quality Assurance of Fakulti Sains (from Mei 99).

7.0 Publications

7.1 Proceedings

- 7.1.1 Zulkafli Othaman, Didik Aryanto, Amira Saryati Ameruddin, Abd. Khamim Ismail, "Effect of Spacer Layer Thickness on Morphology and Optical Properties of Self-Assembled $\text{In}_{0.5}\text{Ga}_{0.5}\text{As}$ Quantum Dots ", Proceeding of the 3rd Asian Physics Symposium, July 22 – 23, 2009, Bandung, Indonesia
- 7.1.2 Amira Saryati Ameruddin, Zulkafli Othaman, Didik Aryanto, Abd. Khamim Ismail, "Formation of Self-Assembled Ge islands on Si (100) Using Magnetron Sputtering and Subsequent Rapid Thermal Annealing", Proceeding of the 3rd Asian Physics Symposium, July 22 – 23, 2009, Bandung, Indonesia.
- 7.1.3 Didik Aryanto, Zulkafli Othaman, Amira Saryati Ameruddin, Abd. Khamim Ismail, "Correlation between Structural and Optical Properties of Self-Assembled $\text{In}_{0.5}\text{Ga}_{0.5}\text{As}$ Quantum Dots", Proceeding of the 3rd Asian Physics Symposium, July 22 – 23, 2009, Bandung, Indonesia
- 7.1.4 D. Aryanto, Z. Othaman, A. K. Ismail, S. Roslan, R. Muhammad, I. Sumpono, A. S. Ameruddin, "Surface Morphology and Lateral Distribution of Self-assembled $\text{In}_{0.5}\text{Ga}_{0.5}\text{As}$ Nanostructures Grown on GaAs (100) Substrates", Proceedings of the International Graduate on Engineering and Science (IGCES'08), Applied Physics and Nano Technology, 23 - 24 December 2009,
- 7.1.5 Zulkafli Othaman, Didik Aryanto, Ahmad Khamid Ismail, Nov 2008, "Morphology & Structure of Self-Assembled $\text{In}_x\text{Ga}_{1-x}\text{As}$ Quantum Dots on GaAs(100) using MOCVD". America Institute of Physics Conference Proceeding, June 1, 2009, Volume 1136, pp. 36 -40, NANOSCIENCE AND NANOTECHNOLOGY: International Conference on Nanoscience & Nanotechnology 2008.
- 7.1.6 Rosnita Muhamad, Zulkafli Othaman, Samsudi Sakrani, Yusuf Wahab, "Morphological and Electrical Characterization of GaAs nanowires", America Institute of Physics Conference Proceeding 1150, Jul 1, 2009, pp. 344 - 347, NANOSCIENCE AND NANOTECHNOLOGY:Third International Meeting on Frontiers of Physics 12 – 16 Jan 2009
- 7.1.7 Amira Saryati Ameruddin, Zulkafli Othaman, Rosnita Muhammad, Shahrizar Rosla,Didik Aryanto, Lim Kheng Boo, "Formation of Germanium Quantum Dots on Silicon Substrate", Proceedings of the Regional Annual Fundamental Science Seminar 2008, 27-29 May 2008, IIS, UTM Skudai, Johor, Malaysia, pp 1 – 5.
- 7.1.8 Didik Aryanto, Zulkafli Othaman, Abd Khamim Ismail, Shahrizar Roslan, Rosnita Muhammad, Lim Kheng Boo, Amira Saryati Ameruddin, "Effect of buffer layer thickness on the surface morphology of $\text{In}_{0.15}\text{Ga}_{0.85}\text{As}$ epitaxy layer grown by MOCVD", ", Proceedings of the Regional Annual Fundamental Science Seminar 2008, 27-29 May 2008, IIS, UTM Skudai, Johor, Malaysia, pp 42 - 47.
- 7.1.9 Shahrizar Roslan, Zulkafli Othaman, Rosnita Muhammad, Lim Kheng Boo, Didik Aryanto, Amira Saryati Ameruddin. "The Role of Atomic Steps on the Growth of InGaAs/GaAs Quantum Dots Grown by MOVPE", ", Proceedings of the Regional Annual Fundamental Science Seminar 2008, 27-29 May 2008, IIS, UTM Skudai, Johor, Malaysia, pp 313 – 317.

- 7.1.10 Zulkafli Othaman, Didik Aryanto, Ahmad Khamim Ismail, “ Surface Morphology and Optical Properties of Stacked Self-Assembled $\text{In}_x\text{Ga}_{1-x}\text{As}$ Quantum Dots Grown by Metal-Organic Chemical Vapor Deposition”. Third International Meeting on Frontiers of Physics (IMFP 2009), Institut Fizik Malaysia, Kuala Lumpur, 12 – 16 Jan 2009, (To be published in the America Institute of Physics Conference Proceeding)
- 7.1.11 Rosnita Muhammad, Zulkafli Othaman, Yusuf Wahab, Didik Aryanto, “Vapor-liquid solid mechanisms using gold colloids for GaAs nanowire grown by metal organic chemical vapor deposition”, Proceedings of the Regional Annual Fundamental Science Seminar 2008, 27-29 May 2008, IIS, UTM Skudai, Johor, Malaysia, pp 313 – 317
- 7.1.12 Zulkafli Othaman, Yazid Abdul Manap, Bakar Ismail, Mohd Nor Md Yusuf, Yussof Wahab, Wan Nurulhuda Wan Samsuri, “Carbon Monoxide Sensor Based on Thin Film of ZnO:Al ”, ISESCO International Workshop and Conference on Nanotechnology IWCN2007, Hotel Equatorial Bangi, 12 – 15 Jun 2007.
- 7.1.13 Zulkafli Othaman, Yazid Abdul Manap, Bakar Ismail, Mohd Nor Md Yusuf, Yussof Wahab, Wan Nurulhuda Wan Samsuri, “ ZnO Thin Film Gas Sensor for CO ”, International Conference on Advancement of Materials and Nanotechnology, City Bayview Hotel, Langkawi, Kedah, 29 May – 1 Jun 2007.
- 7.1.14 The Effect of Doping and Operation Temperature on ZnO Thin Film Gas Sensor, The 2nd International Conf. on Solid State Sci and Techno 2006 (ICSSST 2006), Grand Continental, K. Terengganu, 4 - 6 Sep 2006
- 7.1.15 Yazid Abdul Manap, Bakar Ismail, Mohd Nor Md Yusuf, Zulkafli Othaman, Yussof Wahab, Wan Nurulhuda Wan Samsuri, “A Study of The Sensing Properties of ZnO Thin Film Sensor to CO ”, National Conference of Physics 2006 (PERFIK 2006), Hotel Palace of the Golden Horses, 6 – 7 Dis 2006.
- 7.1.16 Yazid Abdul Manap, Bakar Ismail, Mohd Nor Md Yusuf, Yussof Wahab, Zulkafli Othaman, Wan Nurulhuda Wan Samsuri, “A Design of Test Chamber System for Gas Sensor”, National Metallurgical Conference 2006 (NMC 2006), Hotel Putra Palace, Kangar, Perlis, 9 – 10 Dis 2006.
- 7.1.17 Yazid Abdul Manap, Bakar Ismail, Mohd Nor Md Yusuf, Yussof Wahab, Zulkafli Othaman, Wan Nurulhuda Wan Samsuri, “The Effect of Thickness on ZnO Thin Film CO Gas Sensor”, Annual Fundamental Science Seminar 2006 (AFSS 2006), Institut Ibnu Sina, UTM, 6 – 7 Jun 2006.
- 7.1.18 Zuhairi Ibrahim, Mohd Mustamam Abd Karim, Zulkafli Othaman, “SEM analysis on undoped stannic oxide as an active element for gas sensing in air, Proceedings of the 11th Scientific Conference of Electron Microscopy Society of Malaysia, Johor Bahru, Johor, 17-18 Dec 2002, EMSM, 145-148
- 7.1.19 Zuhairi Ibrahim, Mohd Mustamam Abd Karim, Zulkafli Othaman, “XRD Analyses on Pure and Pt Doped Stannic Oxide Ceramics Produced by Dry Pressing”, Proceedings of Malaysian Science and Technology Congress (MSTC) 2002, Symposium A, Johor Bahru, 19-21 Sep 2002, MSTC, 33
- 7.1.20 Hasbullah A. Hasbi, Zulkafli Othaman, Samsudi Sakrani and Suzanne Jardine, “Surface Morphology of a-Si:H thin films Grown from Ar-SiH_4 mixture by rf plasma-enhanced chemical vapor deposition”, Proceedings Annual Fundamental Science Seminar 2004, Ibnu Sina Institute, 15-16 June 2004, UTM
- 7.1.21 Tan Hang Khume, Mohd Nor Md Yusuf, Bakar Ismail, Yusuf Wahab and Zulkafli Othaman, “Resistivity Measurement of ZnO:Al films for Solar Cell,

- Proceedings of Annual Fundamental Science Seminar 2006 (AfSS 2006), Ibnu Sina Institute for Fundamental Science Studies, pp 67-72, , 6 – 7 Jun 2006
- 7.1.22 Hasbullah A. Hasbi, Zulkafli Othaman, Samsudi Sakrani, “Structural studies of radio frequency sputtered hydrogenated amorphous silicon carbide thin films”, Proceedings Annual Fundamental Science Seminar 2003, Ibnu Sina Institute, 2003, UTM

7.2 Journals

- 7.2.1 Rosnita Muhammad, Zulkafli Othaman, Lim Kheng Boo & Yusuf Wahab, “InAs/GaAs Quantum Dots Grown by Metal Organic Chemical Vapor Deposition at Different Temperatures”, Modern Applied Science, Vol. 2, No. 3, Canadian Center of Science and Education, May 2008
- 7.2.2 Rosnita Muhammad, Zulkafli Othaman, Yusuf Wahab, Lim Kheng Boo, & Shahrizar Roslan, “Effect of Growth temperature on InAs/GaAs Quantum Dots Grown by MOCVD”, Solid State Science & Technology Letters, Vol 15, No. 2 (2008) 150 – 155.
- 7.2.3 Zuhairi Ibrahim, Zulkafli Othaman, Mohd Mustamam Abd Karim and Dianne Holland, “Resistance Measurements and Activation Energies Calculations of Pure and Platinum Doped Stannic Oxide Ceramics in Air”, Solid State Science and Technology, ICSSST 2006, American Institut of Physics, pp 96 -99, 2007
- 7.2.4 Zuhairi Ibrahim, Zulkafli Othaman, Mohd Mustamam Abd Karim, Dianne Holland “X-ray photoemission spectroscopy (XPS) analysis on platinum doped stannic oxide ceramic”, Solid State Science and Technology, Vol. 15, No. 1 (2007) 65 - 73
- 7.2.5 Yazid Abdul Manap, Bakar Ismail, Mohd Nor Md Yusuf, Zulkafli Othaman, Yussof Wahab, Wan Nurulhuda Wan Samsuri, “The Effect of Doping and Operation Temperature on ZnO Thin Film Gas Sensor”, J. Solid St. Sci. and Technol. Letters, Vol. 14, No. 1 (2007).pp 11 – 16.
- 7.2.6 Zuhairi Ibrahim, Zulkafli Othaman, Mohd Mustamam Abd Karim, “Response & Recovery Time of Platinum Doped Stannic Oxide Ceramic Methane Sensor”, J. Solid St. Sci. and Technol. Letters, Vol. 12, No. 1&2 (2005) 251–259.
- 7.2.7 Zuhairi Ibrahim, Zulkafli Othaman, Mohd Mustamam Abd Karim, Mohd Khairi Saidin, Rosli Husin, “On Optimum Composition of Pt-Doped Stannic Oxide as an Active Element for Methane Sensing in Air via Sensitivity Measurements”, J. Solid St. Sci. and Technol. Letters, Vol. 10, No. 2 (2003) 15 – 20.
- 7.2.8 Zuhairi Ibrahim, Zulkafli Othaman, Mohd Mustamam Abd Karim, “The Effect of Pt in Stannic Oxide Ceramics”, J. Solid St. Sci. and Technol., Vol 12, No.1, 2004, 1-12.
- 7.2.9 I. Zuhairi, O. Zulkafli, A.K. Mustamam, “Morphological Examination of Undoped Stannic Oxide and Platinum Doped Stannic Oxide for Gas Sensing in Air”, Journal of The Institute of Materials Malaysia, July 2003 Vol4(2).
- 7.2.10 Muhamad Zaki Yaakob, Samsudi Sakrani, Zulkafli Othaman, “Fabrikasi & Pencirian Diod Schottky Au/GaAs/Au-Ge”, J. Sol. St. Sc. & Technol. Letters, Vol 6 No. 2 (1999) 124-127.

- 7.2.11 Zulkafli Othaman, "Calibration of Manganin Pressure Gauge using Clamp Type Hydrostatic Pressure System", J. Fiz. UTM, Jabatan Fizik UTM, Vol 3.2 (1996) 29-37.
- 7.2.12 Z Othaman, A. K. Geim, S. J. Bending, R. T. Symes and R S Smith, "Unambiguous Identification of X-point- related Resonances in GaAs/AlAs/GaAs Tunnel Diodes under Hydrostatic Pressure" *Semicond. Sci. Technol.* 8 (1993) 1483-1486.
- 7.2.13 Z Othaman, A. J. Peck, S. J. Bending, G. A. Saunders, M. Rossmannith, K. Ploog, and K von Klitzing, "Hydrostatic Pressure Studies of an Asymmetrically Doped Resonant Tunnelling Diode", *J. Appl. Phys.* 70 (3) (1991) 1548.
- 7.2.14 D. A. Ladds, G. A. Saunders, P.J. Ford, D.P. Almond, Chang Fanggao, Z Othaman, S.J.Bending, S. Smith, B.F. Chapman, R.A.L Sullivan, *Magnetic Origins of The Phase Transitional Behaviour at 200 K in CaZnFeO*", *Solid State Comm.*, Vol 78 No 5 (1991) 413-417.
- 7.2.15 Growth Parameters of InAs/GaAs Quantum Dots Grown by MOVPE, *J. Solid St. Sci. and Technol.*, Vol ?, No.?, 2008 (To be published)
- 7.2.16 InAs/GaAs Quantum Dots Grown By Metal Organic Chemical Vapor Deposition at Different Temperatures, *J. Solid St. Sci. and Technol.*, Vol ?, No.?, 2008 (To be published)
- 7.2.17 Uniform Indium Arsenide Quantum Dots Formation, *J. Solid St. Sci. and Technol.*, Vol ?, No.?, 2008 (To be published)

8 Teaching Experience

8.1 Subjects Taught

Academic Year	Subjects	Jangkamasa*	Level
99-2001	Fizik Asas I (SSF1103)	2 Semester	Sarjana Muda
2001/02	Fizik Asas II (SSF1113)	2 semester	Sarjana Muda
2002-06	Sains Bahan (SSF3612)	3 semester	Sarjana Muda
2000-06	Fizik Suhu Rendah (SSF4602)	5 semester	Sarjana Muda
2003/04	Pengujian Radiografi Industri (SSF3422)	1 semester	Sarjana Muda
2007/08 2008/09	Sains Bahan (SSP2412)	2 semester	Sarjana Muda
05/06	Semiconductor Physics (MSF5433)	1 semester	Sarjana
07/08	Thin Film Amorphous Materials (MSF5443)	1 semester	Sarjana
99/00 & 07/08	Fizik Keadaan Pepejal (SSP2413)	2 semester	Sarjana Muda

8.2 Supervision

8.2.1 Doctorate

8.2.1.1 Zuhairi Ibrahim (Conferred: 13 June 2005)

Thesis: "Characterization of Sub-Micron Platinum-Doped Stannic Oxide Ceramics For Methane Sensing in Air"

8.2.1.2 Rosnita Mohamad (2007 – 2010)

Project: Growth of GaAs Nanowires using gold colloid in MOCVD

8.2.1.3 Habib Hamidnezhad (2008 -2011)

8.2.2 M. Sc.

7.2.2.1 Hasbullah Bin Anthony Hasbi (Conferred 10 June 2005)

Title: The Growth of Hydrogenated Amorphous Silicon Thin Film Using PECVD and Its Structural Characteristics

7.2.2.2 Lim Kheng Boo (Conferred Sept 2008)

Title: Parameters Study of Indium Arsenide Quantum Dots Growth Using MOVPE

7.2.2.3 Shahrizar Roslan (2007 - 2009)(on going)

Title: Growth and Characterization of InGaAs quantum dots

7.2.3.4 Didik Aryanto (Sept 2009)

Title: The role of buffer layer and inter diffusion in InGaAs Nanostructure growth

7.2.3.5 Amira Saryati Ameruddin (2008 ongoing)

Title: Growth patterning of Ge/Si Quantum Dots

7.2.3.6 Edy Wibowo (2009 – 2011)

Title: Growth parameter study of InGaAs nanowires using MOCVD.

8.2.3 B. Sc. Projects:

8.2.3.1 Nurul Izah Zulkifli - Topic : Pencirian Optik Saput Tipis SnO₂
(Jun 2007 – April 2008)

8.2.3.2 Lim Cheng Foo – Topic : The Temperature Effect on the
density and size of Indium Arsenide Quantum Dots (Jun 2007
– April 2008)

8.2.3.3 Wan Mohd Adli Bin Yahya – Topic : Kajian Sifat Optik Saput
Tipis ZnS pada .Ketebalan Berbeza (Jun 2006 - April 2007)

8.2.3.4 Mohd Husni Mohd Som – Topic : Elctrical Properties Study on
Sandwiched Aluminium/Stannum (IV)/.Aluminium Structures
(Jun 2005-Mei 2006)

8.2.3.5 Haizum Farhana Md Yusuf – Topic : Kajian Sifat Optik
Stanum Selenida, SnSe pada Ketebalan berbeza (Dis 2005 -
Nov 2006)

- 8.2.3.6 Nurul Izah Binti Zainon Mokhtar – Topic : Kajian Sifat Optik Saput Tipis Stannum (iv) Oksida SnO pada ketebalan Berbeza (Dis 2005 - Sept. 2006)
- 8.2.3.7 Lee Suong Chin – Topic : Study of Electrical and Optical Properties of Silicon Monoxide (2004 -Mar 2005)
- 8.2.3.8 Roziatul Akmal Binti Hasan – Topic : Kajian ciri I-V dan Kesan Hall Terhadap pelbagai Luas sentuhan logam-semikonduktor (Jun 2003 - Sep 2004)
- 8.2.3.9 Norhazlinda Bt Md. Buzi – Topic : Diod Schottky: Mengkaji ciri I-V, C-V dan Kesan Hall terhadap sentuhan logam dengan silikon jenis-p pada diameter berbeza (Jun 2002 - Okt 2003)
- 8.2.3.10 Syamsul Musyawir bin Mustafa – Topic : Kajian Struktur Terapit Timah Selenida (SnSe) (Jun 2001 - Okt 2002)
- 8.2.3.11 Nor Anisah Abd Wahab – Topic : Sifat Elektrik Struktur Terapit Al/SnO/Al (Jun 2001 - Okt 2002)
- 8.2.3.12 Hairul Nizam Bin Idris – Topic : Melihat perubahan ciri I-V sentuhan semikonduktor (Si) dengan pelbagai logam (Jun 1999 - Okt 2000)
- 8.2.3.13 Lee Wee Pin – Topic: Kesan Asid dan Masa Rendaman Dalam Mempengaruhi Ketinggian Sawar Schottky, (Jun 2000 – Apr 2001)
- 8.2.3.14 Mohd Nasir Othman, - Topic: Penulenan Hablur Tunggal Timah Dengan Kaedah Penulenan Zon, (Jun 2000 – Apr 2001)

9 Conference/Lecture Presented

- 9.1 The Third Annual Physics Symposium APS2009, Insitut Teknologi Bandung, Indonesia, 21 – 23 July 2009.
- 9.2 Third International Meeting on Frontiers of Physics (IMFP 2009), Institut Fizik Malaysia, Kuala Lumpur, 12 – 16 Jan 2009, “ Surface Morphology and Optical Properties of Stacked Self-Assembled $\text{In}_x\text{Ga}_{1-x}\text{As}$ Quantum Dots Grown by Metal-Organic Chemical Vapor Deposition”.
- 9.3 The International Conference on Nanoscience & Nanotechnology 2008, UiTM Shah Alam, Selangor, 18 – 21 Nov 2008, “Morphological & Structural of Self-Assembled $\text{In}_x\text{Ga}_{1-x}\text{As}$ Quantum Dots on GaAs(100) using MOCVD”.

- 9.4 The XXI Regional Conference & Workshop on Solid State Science & Technology (RCWSST 2004), Hyatt Regency Kinabalu, Sabah, 10 -13 Okt 04 Topic: Response & Recovery Time of Platinum Doped Stannic Oxide Ceramic Methane Sensor
- 9.5 The XXI Regional Conference & Workshop on Solid State Science & Technology (RCWSST 2003) Topic: On Optimum Composition of Pt-Doped Stannic Oxide as an Active Element for Methane Sensing in Air via Sensitivity Measurements
- 9.6 Uniform Indium Arsenide Quantum Dots Formation, Regional Conference on Solid State Science & Technology, RCSSST 2007, Hyatt Regency JB, 27 - 29 Nov 2007
- 9.7 Carbon Monoxide Sensor Based on Thin Film of ZnO:Al, ISESCO International Workshop and Conference on Nanotechnology IWCN2007, Hotel Equatorial Bangi, 12 – 15 Jun 2007
- 9.8 The Stranski – Krastanov Three Dimensional Island Growth Prediction on Finite Size Model, Annual Fundamental Science Seminar, IIS 2005
- 9.9 ZnO Thin Film Gas Sensor for CO, International Conference on Advancement of Materials and Nanotechnology, City Bayview Hotel, Langkawi, 29 May – 1 Jun 2007
- 9.10 The Effect of Doping and Operation Temperature on ZnO Thin Film Gas Sensor, The 2nd International Conf. on Solid State Sci and Techno 2006 (ICSSST 2006), Grand Continental, K. Terengganu, 4 - 6 Sep 2006
- 9.11 Material Science & Technology (RCWSST 2004) Topic: XRD Analyses on Pure and Pt Doped Stannic Oxide Ceramics Produced by Dry Pressing
- 9.12 Fizik Dalam Industri Malaysia, Bengkel Fizik Industri, Riviera Bay Resort 3 Jun 2004, Fakulti Sains Gunaan, UiTM.
- 9.13 Condensed Matter & Material Physics Conference, University of Sheffield, UK 15/12 – 17/12/92.
Topic: “Hydrostatic Pressure Studies of Tunnelling via X-point States in Single Barrier GaAs/AlAs/GaAs Diodes”.
- 9.14 Regional Conference on Solid State Science & Technology, Putri Pan Pacific Hotel, Johor Bahru, Nov 1996.
Topic : “Studies of Tunnelling via X-point States in Single and Double Barrier GaAs/AlAs/GaAs Diodes under Hydrostatic Pressure”
- 9.15 Regional Conference on Solid State Science & Technology, Crown Hotel, Penang 29/11 – 1/12/99.
Topic : “Ciri Diod Schottky n-GaAs Berasaskan Sentuhan Au, Pd dan aloi AuPd”.
- 9.16 The 1st National Material Technology Course, Jabatan Fizik, UTM

Topic : “Teknologi Semikonduktor”.

9.17 Short Course on Thesis Writing, Jabatan Fizik UTM

Topic : “Format Rujukan Bibliografi”.

10 Seminar/Conferences/Courses/Workshop Attended

- 10.1 Kursus Pengendalian MOCVD, Insitut Teknologi Bandung, 28 Jan – 1 Feb 2008
- 10.2 Bengkel Penilaian Anugerah Kertas Kerja Dalam Jurnal Kebangsaan Bagi Anugerah Penerbitan Universiti 2008, Hotel Sofitel, 28 April 2008
- 10.3 Bengkel Penilaian Proposal Fundamkental Research Grant Scheme (FRGS), Bil 1/2008 Bagi Kluster Fundamental Sains dan Matematik, RMC, 19 Mac 2008
- 10.4 Bengkel Sasaran Kerja Tahunan/Key Performance Indicators 2008 Jab Fizik, Sofitel Palm Resort, 4 Feb 2008
- 10.5 Lawatan Penyelidikan ke Research School of Physical Sciences and Engineering (RSPHySE), Australian National University, Australia, 6 – 10 Ogos 2007
- 10.6 Nanotech Malaysia 2007, Pusat Dagangan Dunia Putra, K.L., 28 – 30 Nov 2007
- 10.7 Annual Fundamental Science Seminar, Insitut Ibnu Sina 2005
- 10.8 The XXII Regional Conference & Workshop on Solid State Science & Technology (RCWSST 2005), Kuantan, Pahang, 10 -13 Okt 05
- 10.9 The XXI Regional Conference & Workshop on Solid State Science & Technology (RCWSST 2004), Hyatt Regency Kinabalu, Sabah, 10 -13 Okt 04
- 10.10 Kursus Penasihatn Akademik Pelajar Tahun 1 sesi 2007/08, Dewan Senat UTM, 5 Julai 2007
- 10.11 Nanotechnooogy Applications in Electronics & Semiconductors, Park Royal Hotel KL, KAVAQ international 7 – 9 Mei 2007
- 10.12 Bengkel Penilaian Luar Proposal Sicencefund Kluster Advanced Material & Manufacturing, RMC, 11 Jan 2007
- 10.13 Latihan Penggunaan Mesin MOCVD, NanoEPi Technologies Corp. Korea, 13 – 19 Nov 2005
- 10.14 Seminar Percambahan Pemikiran Islam Hadhari Peringkat IPTA/IPTS Zon Selatan, KUiTTHO, Batu Pahat, 4 Ogos 2005
- 10.15 Bengkel Outcome Based Education (OBE), Riviera Bay Resort, Melaka, 5-7 Ogos 2005

- 10.16 Syarahan Angkasa “What Astronomy Has Done for Einstein”, Agensi Angkasa Negara, Planetarium Negara, 27 April 2005
- 10.17 Pra_Bengkel Penyediaan Dokumen Spesifikasi Program, Hotel Sofitel, 12 April 2005
- 10.18 Bengkel Penyediaan Dokumen Spesifikasi Prgoram, Hotel Renaissance, Melaka, 6 – 8 Mei 2005
- 10.19 Kursus Penyeliaan dan Penilaian Pengajian Siswazah (Sains), Sofitel Palm Resort, 25 – 26 April 2005
- 10.20 Bengkel Pemantapan Sukatan Peperiksaan Penilaian Tahap Kecekapan, Bangunan Pentadbiran UTM, 11 Mei 2005
- 10.21 Kursus Kaedah P&P – Penerapan Kemahiran Generik di Kalangan Pelajar UTM untuk Ketua Jabatan, 9-11 Ogos 2004, UTM.
- 10.22 Bengkel Pendedahan & Latihan Lanjutan Problem Based Learning (PBL) Dikalangan Tim Dekan, Ketua Jabatan dan Staf Sumber PBL, 19-20 Julai 2004, UTM
- 10.23 Bengkel Perancangan Strategik 2003, Halatuju dan Penstrukturan: Kumpulan Fokus Sains dan Matematik, Sofitel Palm Resort, Senai, 18 Feb 2003
- 10.24 Bengkel Perancangan Strategik R&D dan Kumpulan Fokus, “Enhancing the Role of Research Towards WCU”, Desaru Perdana Beach Resort, 20-22 Dis 2002
- 10.25 Bengkel Peranan Timbalan Dekan/Ketua Jabatan, Riviera Bay Resort, 27 – 30 Okt 02
- 10.26 Seminar Penyelarasan & Maklumbalas Kertas Kecemerlangan Sains dan Program Nobel Laureatte Kebangsaan, Hotel Equatorial Bangi, 4-5 Feb 2002, Akademi Sains Malaysia.
- 10.27 Bengkel Masalah Sosial, Disiplin dan Penguatkuasaan Tatatertib Pelajar, 23-24 April 2004, Desaru Beach Hotel.
- 10.28 Bengkel Penyediaan Dokumen Jaminan Kualiti Fakulti Sains, Sofitel Palm Resort, 23 Mac 2004
- 10.29 Latihan Peralatan Nanoelectronics dan Sistem PECVD, CEVP Ltd dan Edwards High Vacuum, England dan LPT, Switzerland, 17 – 28 Ogos 2002
- 10.30 Bengkel Penggubalan Semula Kurikulum Kendalian Bersama Fakulti Pendidikan/Fakulti Sains, Tanjung Puteri Golf Resort, 18 – 20 Jan 2002
- 10.31 Seminar Penyelarasan dan Maklumbalas Kertas Kecemerlangan Sains dan Program Nobel Laureatte Kebangsaan (NLK), Hotel Equatorial Bangi, 4 – 5 Feb 2002
- 10.32 Kursus Bina Negara Asas Birokrat Bagi Program Kecemerlangan Pelajar Bumiputra, BTN Hutan Perca Melaka, 12-16 Okt 2001 Kursus Pembinaan & Penilaian Item Ujian/Soalan 21/2/2001, UPSM, UTM

- 10.33 Bengkel Pengurusan Prestasi Staf UTM, Goodhope Hotel, Skudai, 4 Sep 2001
- 10.34 Kursus Audit Dalaman MS ISO 9000, HRD UTM, 11 – 12 Jun 2001, NPC JB
- 10.35 Bengkel Dokumentasi ISO/IEC 17025 30/3 – 1/4/2001, Century Mahkota Hotel, Melaka
- 10.36 Bengkel Semakan Kurikulum Jabatan Fizik, Fakulti Sains, Hotel Sri Malaysia, JB 27 & 28 Mac 2001
- 10.37 Kursus Managing Change, UPSM, UTM, Holiday Inn Crowne Plaza, JB, 8 – 10 Mei 2001
- 10.38 Bengkel Dokumentasi ISO 17025, FS, UTM, 22 -23 Jun 2001
- 10.39 Konvensyen Sains 2001 IIS, UTM, 4 – 5 July 2001, The Mines Resort City, KL
- 10.40 Bengkel Halatuju Fakulti Sains, Century Mahkota Melaka 6 – 8 July 2001
- 10.41 Bengkel Penilai Proposal IRPA RMK8, Hotel Pulau Spring, 29 Jun 2001
- 10.42 Bengkel Peland Tindakan 2001 Fakulti Sains, Hotel Century Mahkota, Melaka, 6 – 8 Julai 2001
- 10.43 Bengkel Penyediaan Lab Quality Procedure ISO 17025 Fakulti Sains, 22 – 23 Jun 2001
- 10.44 Kursus Pembinaan dan Penilaian Item Ujian/ Soalan Peperiksaan, Bilik Majlis DSI, 21 Feb 2001
- 10.45 Bengkel Dokumentasi Akreditasi Makmal ISO 17025 – Modul 1, UTM, 3 – 4 Mei 2000.
- 10.46 Kursus Kawalan Mutu Kurikulum dan Kemahiran, UTM, 22 – 23 Jun 2000.
- 10.47 Bengkel Pendokumentasi Pengurusan Akademik Fakulti Sains, Fakulti Sains, UTM, 22 – 25 Ogos 2000.
- 10.48 Bengkel Penasihat Akademik Fakulti Sains, Fakulti Sains, UTM, 14 – 16 September 2000.
- 10.49 Bengkel Priority Setting Penyelidikan Sains, Institut Ibnu Sina, UTM, 13 – 15 Oktober 2000.

11 Supervision Experience

11.1 PhD

Zuhairi Ibrahim (2002 – 2005)

11.2 M.Sc.

Hasbullah Anthony Hasbi (2003 – 2005)

Lim Kheng Boo (2004 – 2007)

11.3 Teaching Practice

	Year	Zone	No of Trainees
11.3.1	1986	Sekolah Menengah Zon Kuantan	8
11.3.2	1987	Sekolah Menengah Zon Kuantan	8
11.3.3	1988	Sekolah Menengah Zon Kuala Lumpur	6
11.3.4	1996	Sekolah Menengah Zon Johor Bahru	6
11.3.5	1996	Sekolah Menengah Zon Kota Tinggi	20
11.3.6	1997	Sekolah Menengah Zon Muar	20
11.3.7	2000	Sekolah Menengah Zon Johor Bahru	10

11.4 Industrial Training

- 11.4.1 Asrul Rafsanjani Mohamad Kamarudin, Danamin Trade & Svcs Sd. Bhd., Masai, 2006
- 11.4.2 Khairul Anuar Md Yusof, Nipseals Sd. Bhd., Masai, 2006
- 11.4.3 Nordillah Hussin, Strategi Tegas (M) Sd. Bhd., Masai, 2006
- 11.4.4 Chew Ley Ley, Super Food Technology Sdn. Bhd., Masai, 2006
- 11.4.5 Wan Mohammad Kamal Wan Jaafar, Takeuchi MDF Sdn. Bhd., Masai, 2006
- 11.4.6 Nurul Azlin Mohd Zin, Delphi Packard Electric (M) Sdn. Bhd., K.Terengganu, 2005
- 11.4.7 Siti Intan Baizura Musa, Hospital K. Terengganu, 2005
- 11.4.8 Ahmad Muizz Habibullah, Hospital K. Terengganu, 2005
- 11.4.9 Munirah Ali@Ismail, Hospital K. Terengganu, 2005
- 11.4.10 Mohd Firdaus Mokhtar, MSET Shipbuilding Corp. Sdn. Bhd., K.T, 2005
- 11.4.11 Mohd Hishamudin Abdul Rahim, MSET Shipbuilding Corp. Sdn. Bhd., K.T, 2005
- 11.4.12 Masitah Abdul Rashid, Kemudi Mutiara Sdn. Bhd., K.Terengganu, 2005

- 11.4.13 Ruhana Abd. Rahman, Kilang Kelapa Sawit Sungai Tong, Terengganu, 2005
- 11.4.14 Zuraida Bt Md Shariff, Hospital USM, Kubang Kerian, 2004
- 11.4.15 Nor Azizah Ismail, Hospital USM, Kubang Kerian, 2004
- 11.4.16 Wan Aizuddin W Ramli, Telekom Malaysia, Kota Baru, 2004
- 11.4.17 Aduan Mohammad B Rahin, Jabatan Pertanian Kota Baru, 2004
- 11.4.18 Munira Mohd Rejab, Hospital USM, Kubang Kerian, 2004
- 11.4.19 Noranisa Binti Mat Talib, Hospital USM, Kubang Kerian, 2004
- 11.4.20 Lee Tzyh Sheng, Rex Canning Co. Sdn. Bhd., P. Pinang, 2003
- 11.4.21 Norzealasyarizan Abd Hamid, Robert BOSCH (M) Sdn. Bhd, P.Pinang, 2003
- 11.4.22 Nurul Effendy Abdul Rahman, Motorola Technology Sdn. Bhd., P.Pinang, 2003
- 11.4.23 Nuraini Muhamad, Hospital Pantai Mutiara, P.Pinang, 2003
- 11.4.24 Sukhveer Kaur a/p Jaswant Singh, Hospital Pulau Pinang, 2003
- 11.4.25 Thian Lee Eng, Klinik Pakar Wanita dan Berdsalin Skudai, Johor, 2002
- 11.4.26 Ng Yuk Len, Klinik Pakar Wanita dan Berdsalin Skudai, Johor, 2002
- 11.4.27 Chan Kah Seang, Hospital Lam Wah Ee, Pulau Pinang, 2002
- 11.4.28 Pui Tze Sian, Hospital Lam Wah Ee, Pulau Pinang, 2002
- 11.4.29 Teoh Hooi Leng, Island Hospital, Pulau Pinang, 2002
- 11.4.30 The Tee Bon, Loh Guan Lye Specialist Centre, Pulau Pinang, 2002
- 11.4.31 Eng Joo Siong, Motorola Technology Sdn. Bhd., P. Pinang, 2002
- 11.4.32 Ng Min Yong, Motorola Technology Sdn. Bhd., P. Pinang, 2002
- 11.4.33 Hasbullah Anthony Hasby, Kilang Sawit Sampadi, Kucing, 2001
- 11.4.34 Raphael ak Wilson, Kilang Sawit Sampadi, Kucing, 2001
- 11.4.35 Kiew Siaw Juie, Classic Emas (S) Sdn, Bhd, Kucing, 2001
- 11.4.36 Danny Binti Juhan, Classic Emas (S) Sdn, Bhd, Kucing, 2001
- 11.4.37 Ahmad Maulana Mohamed, Jabatan Kimia Malaysia, Kucing, 2001

12 Research

Approved Research Grant:

- 12.1 Characterization of GaAs Nanowires Grown Using Gold Colloids by Metal Organic Chemical Vapor Deposition Method, FRGS Vot No: 7839, 1 Nov 2008 – 31 Okt 2010, Ketua Penyelidik, (RM113,000)
- 12.2 Growth of Indium Gallium Arsenide Quantum Dots. MOSTI Project No 03-01-06-SF0370, Vot No. 79157, Aug 2007 – July 2009. Ketua Penyelidik, (RM161,000)

- 12.3 The Growth of Gallium Arsenide Quantum Dots Using MOVPE and Their Development for SETs, IRPA Top Down, Proj 09-02-06-0156-SR0013/06-01, Vot No. 74541, Aug 2004 – Jul 2007, Ketua Penyelidik, (RM 1,905,240.00)
- 12.4 Studies of Carbon/Silicon Based Semiconductor Fabricated Using DC-PECVD, Vot No 75082, 1 Feb 2004 – 31 Jan 2005, Penyelidik bersama (RM30,000)
- 12.5 Study of High Electron Mobility Transistor – to produce highest electron mobility in gallium arsenide/gallium phosphate/indium gallium phosphate system. 1 – 30 Oct. 1998. Sponsored by Japanese Society for Promotion Of Science (JSPS).
- 12.6 Study of devices based on gallium arsenide system such as metal field effect transistor (MESFET) or metal oxide field effect transistor (MOSFET) which leads to study of optimum performance of the system. 1997 – 2000. Sponsored by UTM - IRPA VOT72111.
- 12.7 Tin Oxide (SnO₂) as a display device primarily in blue region, Jul 99 – Dis 2000. Sponsored by UTM – IRPA VOT 72178.

13 Consultation and Expertise

13.1 Consultation

- 13.1.1 Service contract with Malaya Glass Sdn Bhd for 15 months starting on 1-8-99 – 31-10-2000 to conduct colour analysis and dominant wavelength of glass samples from bottles production.
- 13.1.2 Joint Research & Material Testing with AFDAL Bersatu, Bukit Mor, Muar, Johor. To conduct research in ready mix concrete (1996).

13.2 Main Expertise

- 13.2.1 Nanostructures, Quantum Structure of Semiconductor Materials, Quantum Electronic Devices, High Pressure Testing, Vacuum Techniques, Low Temperature Properties of Materials, Metal-Organic Chemical Vapor Deposition (MOCVD/MOVPE) Crystal Grow.

14 Evaluation

14.1 Evaluation of Articles From Journals

- 14.1.1 “Effect of Temperature and Methane on the Electrical Conductivity of SnO₂(100-X) Pd(X) Semiconductor Gas Sensor System” for Anugerah Hari Penerbitan Universiti.
- 14.1.2 High Purity Polycrystalline Silicon Growth and Characterization, Jurnal Teknologi A/2002/14, Penerbit UTM
- 14.1.3 The Nanophysics of Sn-Se System-Growth and Characterization, Jurnal Teknologi C/2002/01, Penerbit UTM
- 14.1.4 J F Bent, A. C. Hannon, D. Holland & M.M. A. Karim , “The Structure of Tin Silicate Glasses”. Journal of Non-Crystalline Solids (1998) 232- 234.
- 14.1.5 Mohd Zaky Noh dan Md Rahim Sahar, “Physical & Mechanical Properties of Cullet-Mica Computer Material”. Solid State Science & Technology, 1998, Vol 6 No 1, 27 – 33.
- 14.1.6 A.S. Liew, M R Sahar, M.M. Karim, “A Study of Crystallisation in Soda-Lime Silicate Glass at Different Cullet Level”. Solid State Science & Technology, (1998) Vol 6 No 1 53 –59.

14.2 Referee / Evaluation of Articles For Journals/Editor

- 14.2.1 Possibility of High Performance Computation by using Quantum Tunneling Photons, International Journal of Simulation and Process Modeling, Inderscience Publishers, UK, 2005
- 14.2.2 Microstructural Characterization of Au-In Thin Film Deposited by Electron Beam Evaporation, Sains Malaysiana, Penerbit UKM, 2008
- 14.2.3 Synthesis of Silicon Nanowires by carbothermal evaporation technique, Proceedings RAFSS 2007, Insitut Ibnu SIna,
- 14.2.4 The study of the liquefaction of Soda Lignin in Phenol in the Presence of Acid Catalyst., Journal of Solid St. Sci. and Technol. Letters, Malaysian Solid State Science & Technology Society, 2008
- 14.2.5 Structure design proposal for quantum dots capacitance-voltage measurement, Institut Ibnu Sina, 2005

- 14.2.6 Heat Treatment of Bi(Pb)-Sr-Ca-Cu-O thin films prepared by pulsed laser deposition, Journal of Solid St. Sci. and Technol. Letters, Malaysian Solid State Science & Technology Society, 2004
- 14.2.7 Electrical and Structural Properties of Pd/Si/Pd Schottky Contacts. Journal of Solid St. Sci. and Technol. Letters, Malaysian Solid State Science & Technology Society, 2006.
- 14.2.8 The Effect of Annealing Temperature on the Nanostructure of BaTiO₃ thin Films, Journal of Solid St. Sci. and Technol. Letters, Malaysian Solid State Science & Technology Society, 2006.
- 14.2.9 Analysis of Laser Microwelding Applied for Photonic Devices Packaging, Journal of Solid St. Sci. and Technol. Letters, Malaysian Solid State Science & Technology Society, 2008.
- 14.2.10 Fabrication of Carbonaceous Material Using Home-made Plasma-Enhanced Chemical Vapour Deposition, Journal of Solid St. Sci. and Technol. Letters, Malaysian Solid State Science & Technology Society, 2008
- 14.2.11 Ab Initio Calculation of Electron Energy Bands in Alkali Atoms, Journal of Solid St. Sci. and Technol. Letters, Malaysian Solid State Science & Technology Society, 2008
- 14.2.12 Comparison Study of Determining Temperature Brightness Between NOAA APT and HRPT data, Journal of Solid St. Sci. and Technol. Letters, Malaysian Solid State Science & Technology Society, 2008
- 14.2.13 Quartz Crystal Microbalance Gas Sensor for Detection of Volatile Organic Compounds using Titanium Dioxide Coated Dye-Porphyrin, Journal of Solid St. Sci. and Technol. Letters, Malaysian Solid State Science & Technology Society, 2008
- 14.2.14 The Effect of Different Ge concentration on the Characteristics of Strain Silicon MOSFET, Journal of Solid St. Sci. and Technol. Letters, Malaysian Solid State Science & Technology Society, 2008
- 14.2.15 Heuristic Boolean Function Simplification Method, Chin Kui Fern, Mohamad Kadim Suaidi, Jurnal Solid State Science & Technology Letters, 2003
- 14.2.16 Boolean Function Manipulation Based on Decision Diagrams, Sim Poh Ching et al, Jurnal Solid State Science & Technology Letters, 2003

- 14.2.17 Thermal stability and IV characteristics of In-situ epitaxial Al on GaAs PHEMT Grown by Solid Source MBE, Azlan Aziz, Jurnal Solid State Science & Technology Letters, 2003
- 14.2.18 Investigation of the Bulk Conductivity of BaZrMO under wet N₂, Jurnal Solid State Science & Technology, 2001
- 14.2.19 Vibrational Anharmonicity of Vitreous Cerium Phosphate, Jurnal Solid State Science & Technology, 2001
- 14.2.20 Effect of Calcium Carbonate Fillers on Impact Properties of CoPolymer Grade Polypropylene, Jurnal Solid State Science & Technology, 2001
- 14.2.21 Effect of Temperature and Methane on the Electrical Conductivity of SnO₂ (100-x)Pd(x) Semiconductor Gas Sensor System, 2000
- 14.2.22 The Nanophysics of Sn-Se System-Growth and Charcterization, Journal Teknologi C, Penerbit UTM, 2002
- 14.2.23 High Purity Polycrystalline Silicon Growth and Charcterization, Journal Teknologi A, Penerbit UTM, 2002

14.3 Postgraduate Progress Examiner

- 14.3.1 Budi Astuti, Ph.D.
- 14.3.2 First Stage Evaluation for Eeu Tien Yew, 15 April 2008, M. Sc.
- 14.3.3 First Stage Evaluation for Ong Huei Hwang, 12 Mac 2004, M.Sc.
- 14.3.4 First Stage Evaluation for Hasbullah Anthony Hasbi - 11 Mac 2003- M.Sc.
- 14.3.5 First Stage Evaluation for En Syahrul Humaidi (4/7/98) - M.Sc.
- 14.3.6 First Stage Evaluation for Cik Rosnita Bte Muhamad (29/3/96) - M.Sc.
- 14.3.7 First Stage Evaluation for Cik Siti Noorjannah Abd Hamid (28/2/98) - M.Sc.
- 14.3.8 Mdm Liew Ann Shing (19/10/96) - M.Sc.

14.4 M.Sc. Examiner

- 14.4.1 Mohd Faiz Aizad Abdul Fatah, "Fabrication & Characterization of Ultra-Thin SiO₂ for Sub-micron Optical & Electrical Study, University Malaysia Perlis, 11 Jun 2007.
- 14.4.2 Nor Muniroh, "Study of GaAs Clusters", Universiti Teknologi Malaysia, Mar 09.
- 14.4.3 Yeong Wai Woon, "The Formation, Structural and Optical Properties of Silicon Nanocrystals Embedded in Silicon Dioxide", Universiti Teknologi Malaysia, 7 Mei 2008.
- 14.4.4 Noor Fadilah Muhamad Sahapini, "Electrical Properties of TeO₂-ZnO-ZnCl₂ Doped Eu₂O₃", Universiti Teknologi Malaysia, Mei 2008
- 14.4.5 Ling Chuo Ann, "The microhardness of TeO₂-ZnO-CuO", Universiti Teknologi Malaysia, 14 Nov 2007
- 14.4.6 Ooi Chin Hoe , "Kajian Sifat Optik Saput Tipis SnO₂ Disediakan Secara Semburan Pirolisis Untuk Pemantul Haba". 2 March 2000.
- 14.4.7 Siti Noorjannah Abd Hamid, "Pengoptimuman Parameter-Parameter Bagi transducer Akustik Elektromagnet (EMAT)" April 1996.
- 14.4.8 Abdallah Belal Adam, "Studies of Amorphous Thin Films of the Antimony-Selenium System" March 1998.