



PART I

Personal Particulars

Name : Prof. Dr. Hamidi Abdul Aziz
Nationality : Malaysian
Age: 51
Current Position : Professor, School of Civil Engineering, Universiti Sains Malaysia (USM)
Qualification : Ph.D.
Field of specialization : Environmental Engineering (Solid Waste Management, landfill technology, water and wastewater engineering, noise pollution)
Researcher profile: Researcher ID: F-6836-2010 (h-Index: 24, Articles With Citation Data 115, Sum of the Times Cited 1771, Average Citations per Article 15.4, as of 30 June 2016)
Scopus ID: 7005960760 (h-Index: 26, Articles With Citation Data 132, Sum of the Times Cited 2264, Average Citations per Article 17.15, as of 30 June 2016)
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PART II

Working Experience

Year	Post	Field	Organization
1992-2000	Lecturer	Environmental Engineering.	USM
2000-2007	Associate Professor	Environmental Engineering	USM
2007 to date	Professor	Environmental Engineering	USM

PART III

1.0 RESEARCH AND PUBLICATION
1.1 Research Publications
1. Research book/monograph
2. Aziz, H.A. Integrated Solid Waste Management: Towards Sustainable Development (In Malay). Universiti Sains Malaysia Publisher, 2009. ISBN 978-983-861-401-6.
3. Aziz, H.A. (1992), 'A study on the removal of manganese from water in the presence of coarse media', Ph.D. thesis, Department of Civil Engineering, University of Strathclyde, UK, 252 pages.
4. Aziz, H.A. (1999), 'Wastewater Engineering: Quality of water and wastewater (In Malay)', Utusan Publication, ISBN 9676110159, 119 pages.
5. Aziz, H.A. (1999), 'Wastewater Engineering: Treatment Plant Design (In Malay)', Utusan Publication, ISBN 9676110205, 267 pages.
6. Aziz, H.A. (2007), 'Noise Pollution: Theory, Sources, Legislation and Control' (In Malay), USM Publisher 2009, 253 pages.
7. Aziz, H.A. , Abu Amr, S.S., 2015, Editor, Book title: Control and Treatment of Landfill Leachate for Sanitary Waste Disposal. In the Advances in Environmental Engineering and Green Technologies (AEEGT) book series, Publisher: IGI Global, In Press., IGI Global, 0
8. Aziz, H.A. , Mojiri, A. (Editors). Wastewater Engineering: Advanced Wastewater Treatment Systems, International Journal of Scientific Research Books, IJSR Publications, 2013, ISSN: 2322-4657
9. Bashir, M.J.K., Aziz, H.A. , Yusoff, M.S., 2012, Mature municipal landfill leachate treatment: Ion exchange practice, LAP LAMBERT Academic Publishing GmbH & Co., 240
10. Hamidi Abdul Aziz , 2009, Pengurusan Sisa Pepejal Bersepadu: Ke arah Pembangunan Mapan, Universiti Sains Malaysia, ISBN: 9789838614016.
11. Nor Azam Ramli, Ahmad Farhan Mohd. Sadullah, Hamidi Abdul Aziz , Badorul Hisham Abu Bakar, Ismail Abustan, Leong Lee Vien, Mohamad Razip Selamat, Megat Azmi Megat Johari, Wan Hashim Wan Ibrahim., 2007, Abstrak AWAM 2007, Universiti Sains Malaysia, 152
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13. Omran, A., Aziz, H.A. , Gavrilescu, M., Schiopu, Ana-M. Landfill-Ultimate waste management technique, Faculty of Engineering, University of Sam Ratulangi Manado, Indonesia, 2011, 152 pages
14. Umar, M., Aziz, H.A. , Yusoff, M.S., 2011, The effects of chlorination on landfill leachate, LAP LAMBERT Academic Publishing GmbH & Co., 131
15. Journal
1. Abdullah, N. Aziz, H.A. , Yusuf, N.N.A.N., Umar, M., Amr, S.S.A., Potential of KMnO4 and H2O2 in treating semi-aerobic landfill leachate, Applied Water Science, 4, 2014, , 303-309
2. Abu Amr, S.S., Aziz, H.A. New treatment of stabilized leachate by ozone/Fenton in the advanced oxidation process (2012) Waste Management, 32 (9), pp. 1693-1698.
3. Abu Amr, S.S., Aziz, H.A. and Bashir, M.J.K., Application of response surface methodology (RSM) for optimization of semi-aerobic landfill leachate treatment using ozone, Applied Water Science, 4 (3), 2014, 231-239
4. Abu Amr, S.S., Aziz, H.A. and Bashir, M.J.K., Performance of Ozone Reactor in Treating Stabilized Landfill Leachate: Efficiencies and Limitations, International Journal of Applied Environmental Sciences, 2 (8), 2014, , 362-369
5. Abu Amr, S.S., Aziz, H.A. Bashir, M.J.K., Aziz, S.Q., Alslaibi, T.M. Comparison and Optimization of ozone – Based Advanced Oxidation Processes in The Treatment of Stabilized Landfill Leachate (2015) Journal of Engineering Research and Technology, Volume 2, Issue 2, 122-130.
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ozone/persulfate in the advanced oxidation process, Waste Management, In Press, Corrected Proof, Available online 14 March 2013, DOI: 10.1016/j.wasman.2013.01.039.
7. Abu Amr, S.S., Aziz, H.A. , Adlan, M.N., Alkassseh, J.M.A., 2013. Effect of Ozone and Ozone/Persulfate Processes on Biodegradable and Soluble Characteristics of Semiaerobic Stabilized Leachate, Environmental Progress & Sustainable Energy, 33 (1), pp. 184-191
8. Abu Amr, S.S., Aziz, H.A. , Adlan, M.N., Aziz, S.Q., 2013. Effect of Ozone and Ozone/Fenton in the Advanced Oxidation Process on Biodegradable Characteristics of Semi-aerobic Stabilized Leachate, Clean-Soil, Air, Water, 41 (2), 148-152.
9. Abu Amr, S.S., Aziz, H.A. , Adlan, M.N., Bashir, M.J.K., 2013. Optimization of semi-aerobic stabilized leachate treatment using ozone/Fenton's reagent in the advanced oxidation process, Journal of Environmental Science and Health, Part A: Toxic/Hazardous Substances and Environmental Engineering, 48, 720-729.
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32. Aljuboury, D.A.A., Palaniandy, P., Aziz, H.B.A. , Feroz, S. Comparative study of advanced oxidation processes to treat petroleum wastewater, <i>Hungarian Journal of Industry and Chemistry</i> (2015), 43(2), 97–101.
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45. Aziz, H.A. , Adlan, M.N., Amilin, K., Yusoff, M.S., Ramly, N.H., Umar, M. Quantification of leachate generation rate from a semi-aerobic landfill in Malaysia, <i>Environmental Engineering and Management Journal</i> , (2012), 11 (9), 1581-1585.
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Municipal Solid Waste Leachate By Limestone Filter', Proceedings, L-Sessions, L410-L417, Filtech Europa 2003, 21-23 October, Dusseldorf, Germany (biannually).
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(ii) Chapter in University Textbook	
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3.	Aziz, H.A. (1997), 'Laboratory Manual', JAH112-Module 3 (In Malay), First Edition, School of Distance Learning Publisher, USM, 36 pages.
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7.	Aziz, H.A. , (1998). 'Wastewater Engineering and Water Pollution Engineering-Sludge Treatment and Disposal', EAV 512, First Edition, School of Civil Engineering, USM, 34 pages.
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13.	Aziz, H.A. , (2001). 'Operational Method and Engineering Management', EAA 501, First Edition, School of Civil Engineering, USM, 29 pages.
14.	Aziz, H.A. , (2001). 'Solids and Hazardous Management', EMV 514, (In Malay), First Edition, School of Civil Engineering, USM, 172 pages.
15.	Aziz, H.A. , (2006). 'Laboratory manual for Water and Wastewater Engineering', EAP582, First Edition, School of Civil Engineering, USM, 25 pages.
16.	Aziz, H.A. Lecture Note: 'EAH 312-Industrial wastewater' (In Malay), 151pp.
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18.	Aziz, H.A. Lecture Note: 'JAH 413-Pollution and Environmental Concervation' (In Malay), 8pp.
19.	Aziz, H.A. Lecture Note: JAA 471-'Building Services-Sanitation in Building' (In Malay), 44pp.
20.	Aziz, H.A. Printed Lecture Note: 'EAA 271-Engineering Practices (environmental consideration in civil engineering works' (In Malay), 27pp.

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1.2 RESEARCH GRANTS
a) International grant
1. Bio-regenerative Treatment of High-Strength Wastewater using Bio-Fringe and White Jute (<i>Corchorus capsularis</i>) Fibers, International Foundation for Science IFS Grant No.AW/21861 (Ref: No. W/5073-1), RM35000, 19/12/2011-19/12/2011 (Co-researcher)
2. Comparative Health Risks Evaluation due to the Micro Environmental Pollutants, International Cooperation Study between Japan, Malaysia (USM) and India, sponsored by the Japan Society for the Promotion of Science, Japanese Government. Chief researcher: Professor Shinsuke Morisawa, Kyoto University Grant-in-Aid for Scientific Research No. 11691150, 1999 to 2001 (Co-researcher)
3. Investigation for greenhouse gas reduction project using semi-aerobic landfill system in Malaysia: phase 2, Tokyu Construction Co. Ltd., Japan, Tokyo, RM10,000.00, (Principal Investigator)
4. Investigation of landfill gas at Ampang Jajar landfill, Joint research with Fukuoka University, RM13,000, January-December 2012 (Principal Investigator)
5. Preliminary investigation for greenhouse gas reduction project using semi-aerobic landfill system in Malaysia, Tokyu Construction Co. Ltd., Japan, Tokyo, RM24,000.00, (Principal Investigator)
6. Proposal for geophysical study (2-d electrical imaging and transient electromagnetic method (tem)) at the closed Mina landfill, Makkah (head). In kind. (Co-researcher)
7. The Proposed Design and Tendering For The Proposed Design And Tendering For A Safe Closure of Muassim, Mina Disposal Site Phase 1, Mayor Of Makkah, RM281,750, 1/5/2010-31/10/2013 (Co-Researcher)
8. The Proposed Design and Tendering for the New Phase of Landfill at Kakkia Disposal Site-Phase 1 , Mayor Of Makkah , RM486,000 1/5/2010-31/10/2013 (Principal Investigator)
b) On-going grants
1. Enhancement of biodegradation ratio of anaerobic landfill leachate by ozonation/persulphate process , Ministry of Higher Education Malaysia , RM126,300.00, 1/7/2014-30/6/2017 (Principal Investigator)
2. Disaster relief and preparedness: Preparedness of Basic Sanitation Requirement at Relief Centre During Flooding , Ministry of Higher Education Malaysia, RM74,900.00, 1/4/2015-31/12/2015 (Principal Investigator)
3. Solid waste management,CRI Research,500,000, 1/9/2014 - 31/8/2016 (Principal Investigator)
4. Development of Composite Coagulant for Treatment of Partially Stabilized Landfill Leachate , USM (RUT) , RM751,260.00, 15/7/2012-15/10/2015 (Principal Investigator)
c) Completed
1. A study on bubble rising velocity in the reaction zone of dissolved air flotation tank using laboratory model. , Ministry Of Higher Education Malaysia (MOHE) Grant, RM44,000.00, 1/5/2010-30/4/2012 (Co-researcher)
2. A Study On The Use Of Dissolved Air Flotation Process For The Treatment Of Leachate From Landfill Site. Science Fund 03-01-05-SF0099, Ministry of Science, Technology and Innovation Malaysia (MOSTI), RM249,296.00, 1/12/2006-1/4/2009 (Co-Researcher)
3. A Study on the Use of Dissolved Air Flotation Process for the Treatment of Low pH Water , USM Short Term Grant, RM20,000.00, 15/9/2006-14/9/2008 (Co-researcher)
4. A Two Steps Landfill Leachate Treatment Potential Studies Using Activated Carbon, Bentonite-Chitosan and Anionic-Cationic Surfactant-Modified Zeolite (ACSMZ), Science Fund 03-01-05-SF0485, Ministry of Science, Technology and Innovation Malaysia (MOSTI), RM232,500, 01/01/12-31/12/13 (Co-Researcher).
5. Adsorption potential of palm by-product for water and wastewater treatment, USM Short Term Grant, RM19,028.00, September 2002-August 2003 (Co-researcher)
6. Appraisal of landfill leachate treatment by using composite fibers, RM119,200, ERGS Grant, Ministry Of Higher Education Malaysia, 2011-2013 (Principal Investigator)
7. Appraisal of landfill leachate treatment by using composite fibers, RM119,200, ERGS Grant, Mosti, 2011-2013
8. Bioremediation of Crude Oil Hydrocarbons in Coastal Sediments , USM Short Term Grant , RM18,744, 1/6/2006-31/5/2008 (Principal Investigator)
9. Characterization and Degradation Of Prawn - Pond Wastewater at Influent and After Oxidation and Post Treatment by Low Cost Composite Media , Ministry Of Higher Education Malaysia (MOHE) , RM86,600.00, 1/11/2008-31/10/2011 (Principal Investigator)
10. Characterization Semi - Aerobic Landfill Leachate Based on its Biodegradation , Ministry Of Higher Education Malaysia (MOHE) , RM80,000.00, 15/10/2007-15/10/2010 (Principal Investigator)

11. Coagulation and Flocculation of Semi-Aerobic Leachate in Removing COD, Ammonia, Colour and Suspended Solids , USM Short Term Grant , RM18,428, 1/6/2005-31/5/2007 (Principal Investigator)
12. Collection and analyses of solid waste disposal for 9 major towns in Malaysia: Towards a better management, USM Short Term Grant, RM12,445, November 1993-May 1996 (Principal Investigator).
13. Comparative study on the quality of garden waste compost, RM 18,819.25, 2004-2006
14. Composition Study And Use Sludge from Water Treatment Plant For Materials, USM Short Term Grant, RM20,000, Mohd Nordin Bin Adlan , 1/3/2002-30/6/2003 (Co-researcher)
15. Composition Study And Use Sludge from Water Treatment Plant For Materials, USM Short Term Grant, RM20,000.00, Faridah Binti Abu Hassan Asaari , 1/11/2001-28/2/2003 (Co-researcher)
16. Composting of municipal solid waste, RM19,568, 2003-2005 (Co-researcher)
17. Control of algae in oxidation pond with copper sulphate and alum-laboratory study, USM Short Term Grant, RM19,965.72, September 2002-August 2003 (Co-researcher)
18. Degradation Of Municipal Solid Waste In A Properly Designed Sanitary Landfill Subjected To Local Conditions , RM7 , RM271,100.00, Dini Ramya Bt. Hasan Basri , 1/7/1996-31/1/2001 (Co-researcher)
19. Development and Recovery of A New Material of Municipal Solid Waste Leachate Treatment - Case Study at Pulau Burung Landfill , USM Short Term Grant , RM18,680, 15/8/2006-14/6/2009 (Principal Investigator)
20. Development of a hybrid system for landfill leachate treatment, Science Fund 03-02-02-SF0132 (UTP), Ministry of Science, Technology and Innovation Malaysia (MOSTI), RM306,200, 01/01/10-31/12/11 (Co-Researcher).
21. Development of a new material for municipal solid waste leachate treatment -Case study at Pulau Burung landfill., USM Short Term Grant, RM18900, 2006-2007 (Principal Investigator).
22. Development Of A New Material For Municipal Solid Waste Leachate Treatment -Case Study At Pulau Burung Landfill. , Science Fund 03-01-05-SF0485, Ministry of Science, Technology and Innovation Malaysia (MOSTI), 187,095.00, 1/12/2006-30/11/2008 (Principal Investigator)
23. Development of A Novel Modified Hybridized Anaerobic Inclining-Baffled (MHAI-B) Bioreactor for High-Rate Anaerobic Digestion of Pulp and Paper Mill Wastewater , USM (RU) , RM224,553.00, Irvan Dahlan , 1/12/2011-30/11/2014 (Co-researcher)
24. Development Of A Physio-Chemical Treatment System For A Semi-Aerobic Leachate From Domestic Solid Waste Landfill-Case Study At Pulau Burung Landfill Site (PLBS) , RM8 - EA , Ministry Of Higher Education Malaysia, RM203,572.00, 1/9/2002-31/8/2005 (Principal Investigator)
25. Development Of A Pilot For Removing Heavy Metals (Hg, Pb, Zn, Cu, Ni, Mn, Cd and Cu) From Waste Water Using Low Cast Media. , RM7 , RM348,768.00, 1/7/1996-30/9/2000 (Principal Investigator)
26. Development of a Pilot Plant for Production of a New Material in Treating Municipal Solid Waste Leachate Treatment , Ministry Of Higher Education Malaysia (MOHE) , RM366,000.00, 1/11/2011-30/10/2013 (Principal Investigator)
27. Development of a Pilot Plant for Production of a New Material in Treating Municipal Solid Waste Leachate Treatment , KEMENTERIAN PENGAJIAN TINGGI , RM366,000.00, 1/11/2011-30/10/2013
28. Development of a pilot plant for production of new material in treating municipal solid waste leachate treatment, Prototype Resaech Grant Scheme, Ministry Of Higher Education Malaysia, RM366,000, December 2011-November 2013 (Principal Investigator)
29. Development Of An Appropriate Air Nozzle And Pilot Plant Studies Of Dissolved Air Flotation For Water And Wastewater Clarification , RM8 - EA , Ministry Of Higher Education Malaysia (MOHE), RM245,800.00, Mohd Nordin Bin Adlan , 1/9/2002-31/8/2005(Co-researcher)
30. Development of an environmental data acquisition system for use in an Intelligent Transportation System (ITS), IRPA Long Term Grant, RM120,000, November 1999-October 2001 (Co-researcher)
31. Development of dissolved air flotation pilot plant for the treatment of paper mill wastewater, Science Fund 03-01-05-SF0561, Ministry of Science, Technology and Innovation Malaysia (MOSTI), RM495,093, 01/01/10-31/12/11 (Co-Researcher).
32. Development of Durio zibethinus Seed Starch as Novel Natural Coagulant for Landfill Leachate Treatment , USM (RU) , RM197,000.00, 15/7/2012-14/7/2015 (Co-researcher)
33. Development of Sprayer Nozzle of the Saturator for Dissolved Air Flotation Process , USM Short Term Grant, RM20,000.00, Mohd Nordin Bin Adlan , 1/10/2005-30/9/2007 (Co-researcher)
34. Development of Waste-Derived Siliceous Materials as a Sorbent for Dye and Heavy Metal Removal , USM Short Term Grant, RM35,310.00, Irvan Dahlan , 1/5/2010-30/4/2012 (Co-researcher)
35. Efficiency of Ion-Exchange Resin to Remove Organic Materials from Semi-Aerobic Landfill Leachate , USM Short Term Grant, RM34,238.00, 15/12/2007-14/12/2009 (Co-researcher)
36. Environmental Risk Management in the JSPS-VCC Program on Environmental Science, Engineering and Ethics, sponsored by the Japan Society for the Promotion of Science, 2000 to 2009 (fiscal year). Chief researcher: Professor Shinsuke Morisawa, Kyoto University, for the team 'Environmental Risk Assessment (Co-researcher).
37. Gas Monitoring of Taiping Landfill , FUKUOKA UNIVERSITY, JAPAN , RM7,185.00, 3/8/2012-31/8/2013
38. Geophysical Study (2-D Electrical Imaging And Transient Electromagnetic Method (TEM) At The Closed Mina Landfill, Makkah, Fundamental Grant Research Scheme (FRGS), Ministry Of Higher Education Malaysia (MOHE), RM250,000Unimap1/10/2008-01/09/2010 (Co-researcher).

39. GIS Based Watershed Management System For Non Point Source (NPS) Pollution Modelling. , RM8 - EA , Ministry Of Higher Education Malaysia (MOHE), RM194,000.00, Shamshad Ahmad , 1/11/2003-30/4/2007 (Co-researcher)
40. Haj Research Cluster, 2007. Visited Saudi Arabia and presented initial findings, May 2007. (Co-researcher)
41. Horizontal Roughing Filter For Leachate Treatment , USM (RU) , RM169,000.00, Mohd Nordin Bin Adlan , 1/4/2010-31/3/2013 (Co-researcher)
42. Leachate treatment by resin, RM36,000, 2007-2008. (Co-researcher)
43. Low-temperature thermal degradation of polycyclic aromatic hydrocarbons (PAHs) in petroleum sludge, Science Fund 06-02-02-SF0165 (UTP), Ministry of Science, Technology and Innovation Malaysia (MOSTI), RM83,800, 01/01/12-31/05/13 (Co-Researcher)
44. Optimisation of design data for heavy metals removal for media recycling and metal's recovery, IRPA Short Term Grant, RM14,400.00, December 2000-November 2002.
45. Ozone and ozone/fenton oxidants for landfill leachate treatment Science Fund 03-01-05-SF0600, Ministry of Science, Technology and Innovation Malaysia (MOSTI), RM357,200, 01/10/12-30/09/14 (Co-Researcher).
46. Performance evaluation of landfill leachate treatment for selected pollutants using bio-fringe and white jute (corchorus capsularies) fiber, USM Short Term Grant Grant, RM39960, 2011-2013 (Principal Investigator)
47. Performance evaluation of landfill leachate treatment for selected pollutants using bio-fringe and white jute (corchorus capsularies) fiber, USM Sghort Term Grant, RM39960, 2011-2013
48. Point and Non-point source pollution study at Seberang Perai Selatan using GIS, IRPA Long Term Grant, RM240,000, October 2002-October 2005 (Co-researcher).
49. Preparation of A New Nanoporous Organic-Inorganic Hybrid Composite Adsorbent for Organic and Inorganic Pollutants Removal From Landfill Leachate, Science Fund 03-01-02-SF0709 (UKM), Ministry of Science, Technology and Innovation Malaysia (MOSTI), RM122,000, 01/07/10-30/06/12 (Co-Researcher).
50. Proposal on Reengineering of Agricultural Practices for the improvement of Padi Field Farmers Income in Nothern Corridor Economic Region., Research University Grant Scheme (RU), RM865,000, Okt 2007, June 2011 (Principal Investigator)
51. Proposed Study for Copperas (FeSO ₄ , 7H ₂ O) Sample Received from Tioxide (Malaysia) Sdn. Bhd. , TIOXIDE (MALAYSIA) SDN. BHD. , RM4,750.00, 31/10/2013-31/10/2014
52. Removal of Halogenated Hydrocarbons from Wastewater Using Nanoparticles , USM Short Term Grant , RM20,000.00, 15/11/2005-14/11/2007 (Principal Investigator)
53. Removal of heavy metals (Hg, Pb, Zn, Cu, Ni, Cd dan Cr (III)) from industrial wastewater using low cost filtration method in the laboratory, IRPA Short Term Grant, RM18,180, October 1996-March 1998-November 2000 (Principal Investigator).
54. Research on the odour and smell problems in engineering campus USM, Healthy Campus Grant, RM25,000, 2003-2004-(Principal Investigator).
55. Research on the rehabilitation of Desa Harapan Recreation pond, Healthy Campus Grant, RM50,000, 2003-2004 (Co-researcher).
56. River Bank/Bed Filtration For Drinking Water Source Abstraction , LRGs, Ministry of Higher Education (MOHE), RM2,696,150.00, 1/8/2012-31/7/2016 (Co-researcher)
57. Study Effects of Temperature Changes Mesofolik and Termofolik Against Waste Composting Process and stools Park Cattle, USM Short Term Grant, RM20,000.00, Nor Habsah Binti Md. Sabiani , 1/7/2007-30/6/2009 (Co-researcher)
58. Study for an alternative removal technique for nitrogen and phosphorus removal from domestic wastewater for algal bloom control in oxidation ponds and lakes, IRPA Long Term Grant, RM152,000, 2004-2007, (Principal Investigator).
59. Study On Effectiveness Of Capillary Barrier As Landfill Cover Under Tropical Climate , Science Fund 03-01-05-SF0485, Ministry of Science, Technology and Innovation Malaysia (MOSTI), RM170,995, 1/12/2006-30/11/2008 (Principal Investigator)
60. Study on leachate and landfill gas production at Ampang Jajar landfill site in Penang, USM Short Term Grant, RM17,820, January 1995-December 1996 (Co-researcher)
61. Study on leachate treatment by wetland, Science Fund Long Term Grant, RM200,000, 2007-2009, (Co-researcher)
62. Study on The Alternative Nitrogen and Phosphorus Removal from canteen Wastewater for Algae Bloom Control , USM Short Term Grant , RM19,500, 1/6/2003-31/5/2005 (Co-Researcher)
63. Study On The Alternative Removal Technique For Nitrogen And Phosphorus Removal From Domestic Wastewater For Algal Bloom Control In Oxidation Ponds And Lakes , IRPA RMK8, RM151,000.00, 1/8/2005-31/7/2007 (Principal Investigator)
64. Study On The Behavior Of Food Waste Conversion To Organic Organic Fertilizer By Means Of Mechanical Heat Treatment (MHT) , USM (RU) , RM92,000.00, 1/1/2009-30/6/2011 (Co-researcher)
65. Study on the development of equations relating flow and weir length in sedimentation tank, IRPA Short Term Grant, RM19,994, December 2000-November 2002 (Co-researcher).
66. Study on the use of natural starch as coagulant aid in water and wastewater treatment, IRPA Short

Term Grant, RM14,671, December 1998-November 2000 (Principal Investigator).
67. The Effectiveness of Doorstepping as a Communication Tool for Recycling of Solid Wastes in East-Coast and Northern States, Malaysia: An Evaluation Study Towards Sustainability , USM Short Term Grant, RM33,580.00, 1/2/2011-31/1/2013 (Co-researcher)
68. The Proposed Design and Tendering for the New Phase of Landfill at Kakia Disposal Site - Phase 1 , MAYOR OF MAKKAH , RM82,475.75, 1/5/2010-31/10/2013
69. The Use Of Natural Polymer (Natural Starch) As An Alternative Coagulant Aids In Removing Turbidity, Nitrat, Sulphate, Chloride And Heavy Metals From Water And Waste Water , RM7 , RM244,988.00, 1/2/2000-31/1/2003 (Principal Investigator)
70. Theoretical elaboration of solid waste consolidation and the development of the associated laboratory testing procedure, USM Short Term Grant, RM19,000, September 2002-August 2003-(Co-researcher)
71. Theoretical Evaluation of Municipal Solid Waste Consolidation and Settlement in Landfill , FRGS , Ministry Of Higher Education Malaysia (MOHE), RM60,000.00, Mohamad Razip Bin Selamat , 1/11/2006-31/10/2009 (Co-researcher)
72. Towards Odour Pollution Regulation for Malaysia: A Comparative Study Between Olfactometry, the Accepted Method of Odour Measurement in Malaysia with Other Proven Techniques Regulated in Japan, Europe and New Zealand , ERGS, Ministry of Higher Education (MOHE) , RM100,000.00, Nastaain Binti Qamaruz Zaman , 1/8/2012-31/7/2014 (Co-researcher)
73. USM Hajj Research 1428 - 1430 H in Collaboration With UMM Al - Qura Universiti, Makkah, Kingdom Of Saudi Arabia , Ministry Of Higher Education Malaysia (MOHE), RM2,000,000.00, Omar Bin Osman , 15/12/2007-31/12/2012 (Co-researcher)
74. Utilization Of Existing Landfill Spatial Variables To Model A Sustainable Landfill Site Selection , USM (RU) , RM129,350.00, 1/8/2010-31/7/2012 (Co-researcher)
75. Water Quality Monitoring for the Proposed Construction and Completion Fire and Rescue Academy Tronoh , Masdac Engineering Sdn. Bhd. , RM35,000.00, 1/6/2012-31/1/2014 (Co-researcher)
76. Water Quality Study for Green Drainage System (GDS) , IJ Berkat Enterprise , RM20,000.00, 2/1/2013-31/12/2013 (Co-researcher)
1.3 INTELLECTUAL PROPERTY
a) Patent
1. Aziz, H.A. (Head), Halim, A.A., Johari, M.A.M., Ariffin, K.S., Adlan, M.N.. ZELIAC: A Novel leachate treatment system (In filing process). Patent Search Ref. SIRIM, ISD 426/13/1(PS2008-110146).
2. Aziz, H.A., Sulaiman, A.H., Hamdan, N., Kasa, M.S., Abudtan, I., Akil, H.M., Ahmad, Z.A., Ahmad, M.A., Yahaya, N.K.E.M., Latif, M.F.P.M. Green Drainage System (GDS). Patent Search Ref. SIRIM, PI 20095660.
3. Aziz, H.A., Yusoff, M.S., Yahaya, N.K.E.M., Khan, M.N.N., Khan, M.N.N., Khir, M.F.M., Latif, M.F.P.M., Uzir, M.H., Aria, W.N.W. Integrated Recycle Bio Bin (IRBB). (In filing process). Patent Search Ref. MyIPO, PI20095073
4. Adlan, M.N., Aziz, H.A.. Air Injection Nozzle For Solid-Liquid Separation Using Dissolved Air Flotation Process. Patent No. MY-138312, Patent Search Ref. SIRIM, PI 20062479.
5. Tajarudin, H.A., Aziz, H.A., Tamat, M.R., Othman, M.F. A process for the production of acetic acid and butyric acid. Application No: PI 2015704214, Filing Date: 19/11/2015.
b) Trademark
1. Aziz, H.A., Adlan, M.N., Yusoff, M.S., Azmi, M.A.M., Ariffin, K.S., Halim, A.A., Kamaruddin, M.A. ZELIAC, Class (01). Application No. 2015002580.
2. Aziz, H.A., Adlan, M.N., Yusoff, M.S., Azmi, M.A.M., Ariffin, K.S., Halim, A.A., Kamaruddin, M.A. ZELIAC, Class (40). Application No. 2015002581.
2.0 TEACHING AND SUPERVISION
a) Undergraduate / Graduate Teaching
1. Advanced Environmental Engineering (EAP312) – 4 (2.5) credits and 30 students, 1997 to 2001.
2. Advanced Environmental Engineering (JAP512) – 4 (2.5) credits and 20 students, 1999 to 2005.
3. Advanced Public Health Engineering (EAH414) – 4 (2) credits and 20 students, 1993 to 1998.
4. Advanced Public Health Engineering (JAH411) – 4 (2) credits and 10 students to 1994 to 1997.
5. Air & Noise Pollution Control (EAP583) – 4 (2) credits and 12 students, 2004 to date.
6. Building Services (JAA471) – 3 (1) credits and 50 students, 1994 to 1997.
7. Building Services Engineering (EAA471) – 3 (1) credits and 60 students to 1995 to 1997.
8. Engineering Practices (EAA271) – 2 (0.5) credits and 160 students, 2001 to 2003.
9. Environmental Engineering II (EAP311/EAP214) – 3 (1.5) credits and 170 students, 1994 to 2000
10. Environmental Engineering II (JAP411) – 3 (1.5) credits and 70 students, 1998 to 2003
11. Environmental Studies (EAH412) – 4 (1.3) credits and 20 students, 1993 to date
12. Environmental Studies (JAH412) – 4 (1) credits and 10 students to 1994 to 1998.
13. Introduction to environmental science (EAH112) – 3 (2.5) credits and 70 students, 1992 to 1995.
14. Introduction to environmental science (JAH112) – 3 (2.5) credits and 15 students, 1994 to 1997.

15. Noise Pollution (EAV513) – 4 (2) credits and 5 students, 1999 to 2003.
16. Operational Methods and Engineering Management (EAA501) – 4 (0.5) credits and 20 students, 1999 to 2003.
17. Pollution and Environmental Conservation (EAH413) – 4 (2) credits and 20 students, 1993 to 1999.
18. Pollution and Environmental Conservation (JAH413) – 4 (2) credits and 10 students, 1994 to 1997
19. Practical exercise II with 160 students, 1997 to 2000
20. Public Health Engineering I (EAH311) – 3 (1.5) credits and 70 students, 1992 to 1996.
21. Public Health Engineering I (JAH311) – 3 (1.5) credits and 60 students to 1998 to 2000.
22. Public Health Engineering II (EAH411) – 3 (1.5) credits and 20 students, 1992 to 1997.
23. Solid & Hazardous Waste treatment (EAV514) – 4 (2) credits and 5 students, 1999 to 2003
24. Wastewater and Pollution Control Engineering (EAV512) – 4 (2) credits and 5 students, 1999 to 2003
25. Wastewater Engineering (EAP 313) – 2 (1.3) credits and 100 students, 2001 to date
26. Wastewater Engineering (EAP213) – 2 (2) credits and 150 students, 2003 to 2005.
27. Wastewater Engineering (EAP582) – 4 (2) credits and 20 students, 2004 to date.
b) Post-Doctoral And Graduate Supervision Completed
i) Post-doctoral
1) Abu Ahmed Mokammel Haque, 2011-2013
2) Salem S.S. Abuamro, 2014-2015
ii) Completed Ph.D.
1) ABDALLA MOHAMED M GEBRIL, Biodegradation of Libyan crude oils in marine environment, 2015 (As main supervisor).
2) ABDEL NASER OMRAN, Study of recycling attitude in Malaysia, 2007 (As main supervisor).
3) ABDELSALAM O GEBRIL ALI, Factors Affecting Public Participation in the Recycling of Municipal Solid Waste in Libya: A Case Study of Benghazi City, 2012 (As co-supervisor).
4) AHMED A.M. ABU FOUL, Removal of ammonia, COD, colour and suspended solid from leachate using limestone, zeolite and activated carbon, 2007 (As main supervisor).
5) AMIN MOJIRI Co-treatment of landfill leachate and settled domestic wastewater using composite adsorbent augmented sequencing batch reactor, 2014 (As main supervisor)..
6) AMIR HOSSEIN VAKILI Filtration of Broadly Graded Cohesive Dispersive Base Soils, 2015.
7) AZHAR BIN ABDUL HALIM, Treatment of Semi-Aerobic Leachate using Organic and Mineral Based Composite Adsorbent, 2009 (As main supervisor).
8) FAGBENRO OLUWAKEMI KEHINDE Removal Of Color, Suspended Solids And Cod From Textile Wastewater Using Clinoptilolite And Persulfate In Batch System, 2015.
9) FATEHAH MOHD OMAR Characterization, Properties, Transformation And Behavior Of Zno Nanoparticles In Aquatic Systems, 2015.
10) LEILA MOHAJERI, Process Parameters Optimization for Bioremediation of Crude Oil in Contaminated Coastal Sediments, 2011 (As main supervisor).
11) LING SONG KAI, Study on Municipal Solid Waste Management in Malaysia : Case Study in Kuching, Miri and Sibul, 2011 (As main supervisor).
12) MOHAMAD ANUAR KAMARUDDIN Development of carbon mineral composite adsorbent for textile wastewater treatment, 2014 (As co supervisor)
13) MOHAMED OSMAN SAEED, Assessment of Standard Landfill Criteria for Planning of New Landfill Sites, 2012 (As co-supervisor).
14) MOHAMMAD ALI ZAHED, Enhance Biodegradation of Dispersed Crude Oil using Marine Microorganisms, 2011 (As main supervisor).
15) MOHAMMED J. K. BASHIR, Removal of Colour, COD and NH ₃ -N from Semi-aerobic Sanitary Landfill Leachate using Sulfonic Acid Anionic and Quaternary Amine Functional Group Resins, 2011 (As main supervisor).
16) MOHD. SUFFIAN YUSOFF, The effectiveness of limestone as filter media to remove COD, BOD and iron from leachate: case study at Pulau Burung semi-aerobic landfill, 2006 (As main supervisor).
17) MUHD NAZMI BIN ISMAIL, The effectiveness of activated carbon from pandanus leaves as an adsorbent in the removal of ammonia, chromium, colour and chemical oxygen demand (COD) from prawn farming waste water(As main supervisor), 2015.
18) NOOR AINEE ZAINOL. Diplazium Esculentum Leaf As A Natural Coagulant And Coagulant Aid For Potential Application In Landfill Leachate Treatment, 2015 (As main supervisor)..
19) NUR SHAYLINDA MOHD ZIN Partially stabilized leachate treatment using composite coagulant (prehydrolyzed iron (PHI) and tapioca flour (TF)) by coagulation /flocculation method, 2015.
20) NURUL HANA MOKHTAR KAMAL, Nitrogenous Disinfection By-Products (N-DBPs) In Drinking Water: Occurrence, Formation And Control, Department of Civil and Environmental Engineering, Imperial (As co-supervisor), 2015.
21) PUGANESHWARY A/P PALANIANDY, Removal of Turbidity, COD, Colour and Ammonia Nitrogen From Semi-Aerobic Landfill Leachate Using Coagulation and Dissolved Air Flotation (DAF) Processes,

	2012 (As co-supervisor).
	22) SALEM S.S. ABUAMRO, Determination and clean up method development for disinfection byproducts in drinking water of the Gaza Strip (As main supervisor).
	23) SEYEDMOHAMMAD HOSSEINI, Investigation for Evaluation of Up Flow Anaerobic Hybrid Reactor and IFFAS Reactor Efficiency in Treatment of Petrochemical Wastewater and Determination of Process Kinetic Constants, 2013 (As main supervisor).
	24) SHUOKR QARANI AZIZ, Landfill Leachate Treatment Using Powdered Activated Carbon Augmented Sequencing Batch Reactor (SBR) Process, 2012 (As main supervisor).
	25) SORAYA MOHAJERI, Removal of COD and Color from Stabilized Landfill Leachate using Fenton. Electrochemical and Electro-Fenton Processes, 2011 (As main supervisor).
	26) ZAWAWI BIN DAUD, Treatment of Semi-Aerobic Leachate at Pulau Burung Sanitary Landfill Using the Combined Method of Coagulation-Flocculation and Filtration, 2009 (As main supervisor).
iii)	Completed M.Sc. by research
	1. ELVIN TAN, Development of an appropriate air nozzle and air saturator for the dissolved air flotation as a solid-liquid separation process in potable water treatment, 2006 (As co-supervisor).
	2. JAAFAR AHMAD, Composting of municipal solid waste using lateral and vertical rotations, 2001 (As co-supervisor).
	3. JAYA PAUL A/L ARUMAI DHAS, Removal of Cod and Colour from Textile Wastewater using Limestone and Activated Carbon, 2009 (As main supervisor).
	4. LAU TEIK HIN, Removal of colour from semi-aerobic leachate using limestone and activated carbon, 2006 (As main supervisor).
	5. LO MING RUI, Development and Application of Novel Coagulant from Oil Palm Trunk Waste for Semi-Aerobic Landfill Leachate Treatment, 2011 (As co-supervisor).
	6. MOHAMAD FARED MURSHED, Dissolved air floatation using local made saturator for water treatment, 2007 (As co-supervisor).
	7. MOHAMED ALI ABD. KARIM, Master, Cockles shell for leachate treatment, 2000 (As co-supervisor).
	8. MUHAMMAD UMAR, The Effects of Chlorination on Landfill Leachate from Pulau Burung, Ampang Jajar and Kuala Sepetang, 2010 (As main supervisor).
	9. NAJWA FARDELLA BINTI MOHD SHAM, Combination Treatment for Semi-aerobic Leachate By Using Roughing Filter Followed With Dissolved Air Flotation (DAF), 2011 (As co-supervisor).
	10. NASRIN AGHA MOHAMMADI, Influence of adsorbents on activated sludge process in leachate treatment, 2006 (As main supervisor).
	11. NIK AZIMATOLAKMA BINTI AWANG, Hibiscus Rosa-Sinensis Leaf as Coagulant in Wastewater and Leachate Treatments, 2011 (As main supervisor).
	12. NOORULHUDA MOHAMAD ISA, Removal of ammonia in leachate using zeolite, 2005 (As co-supervisor).
	13. NOR HABSAH BINTI MD SABIANI, Composting of Yard Waste Using Aerated Static Pile and Rotary Drum Methods, 2009 (As co-supervisor).
	14. NOR HANA BINTI ADAM, A Study on Leachate COD Fractions from Semi-Aerobic Landfill, 2012 (As co-supervisor).
	15. NORAZLI BT. OTHMAN, Heavy metals removal using limestone particle, 2000 (As main supervisor).
	16. NORHIDAYAH BINTI AHMAD, Synthesis Of Agrowaste Based Activated Carbons By Physicochemical For Dyes Removal, 2011 (As co-supervisor).
	17. NORLIZA KAMALUDIN, Removal of anions and heavy metals from drinking water using natural coagulants, 2006 (As main supervisor).
	18. NUR NASUHA BINTI AHMAD PUAT, Bio-Regenerative Treatments of Poultry Slaughterhouse Wastewater Using Bio-Fringe and White Jute (Corchoros Capsularis) (As main supervisor), 2015
	19. NURAZIM BINTI IBRAHIM, Treatment of Food Waste by Using Mechanical Heat Process, 2012 (As co-supervisor).
	20. SABIR HUSSEIN, Ammoniacal-Nitrogen and Orthophosphate removal from domestic wastewater using limestone and granular activated carbon, as main supervisor, 2006, (As main supervisor).
	21. SALINA ALIAS, Coagulation and flocculation of semi-aerobic leachate using various coagulants and coagulant aids: case study at Pulau Burung landfill, 2005 (As main supervisor).
	22. U HAN THEIN MAUNG, Horizontal roughing filter in water treatment for remote settlement, 2007 (As co-supervisor).
	23. WAN NURUL HUDA BINTI WAN ZAINAL, Removal of remazol brilliant violet 5R and brilliant blue R reactive dyes by adsorption onto functionalized polymeric adsorbents, 2011. (As co-supervisor).
iv)	Completed M.Sc. By Mixed-Mode
	1. ABDUL MANAFF BIN MAHMOOD, Study on the impact of non-point sources by agricultural practices in Kelantan, 2008 (As main supervisor).
	2. HWANG SHIANG LIN, Treatment of synthetic shrimp farm wastewater by composite adsorbent, 2010 (As main supervisor).
	3. KHAIRUL RAHMAH BT AYUB, SWAT application for hydrologic and water quality modeling for

suspended sediments: A case study of Sungai Langat's catchment in Selangor, 2009 (As main supervisor).
4. MANOGARI A/P SUNDRAM, Ammonia, COD and colour removal from prawn pond effluent using composite media, 2008 (As main supervisor).
5. MARNIYATI BINTI MAMAT NOOR, Treatment of final effluent from textile industry by H ₂ O ₂ oxidation, 2007 (As main supervisor).
6. MISKIAH FADZILAH BINTI GHAZALI, Characterization and solidification of dried sludge from textile industry, 2007 (As main supervisor).
7. MUHAMAD AFIQ BIN MAHAT, Evaluation of odour levels from municipal solid waste sludge at bayan baru sewage treatment plant, 2011 (AS main supervisor)
8. NABIHAH BINTI ABDULLAH, Chemical oxidation process in removing COD, ammonia and colour from semi-aerobic leachate, 2005 (As main supervisor).
9. NAIMAH IBRAHIM, Removal of chromium using oil palm by products, 2005 (As main supervisor).
10. NOOR FADZILAH BT KHALID, Coagulation process of semi-aerobic leachate in removing metals using ferric chloride, aluminium sulphate and magnesium chloride, 2005 (As main supervisor).
11. NOOR FAIZAH MOHD NOOR @ SAMSUDIN, Physico-chemical treatment using limestone and activated carbon in removing COD, ammonia and colour from pre-coagulated semi-aerobic leachate with poly-aluminium chloride and Alum, 2006 (As main supervisor).
12. NOORLISA HANIM MOHAMAD ARIFFIN, Physico-chemical treatment using limestone and activated carbon in removing COD, ammonia and colour from pre-oxidized semi-aerobic leachate with KMnO ₄ and H ₂ O ₂ , 2006 (As main supervisor).
13. NORLIA BT. MOHAMAD IBRAHIM, Column study for removal of COD, colour, ammoniacal nitrogen, turbidity and zinc in semi aerobic landfill leachate using mixed media, 2005 (As main supervisor).
14. NUR IZZATI MOHAMAD SOBRI, Extraction and Application of Starch-Based Coagulants from Sago Trunk for Semi-Aerobic Landfill Leachate Treatment, 2014 (As main supervisor)
15. NURUL HAZIQAH BINTI MAT YISIN, Identification of bacteria strain in fully and partially stabilized landfill leachate in relation to leachate biodegradation rate, 2015 (As main supervisor)
16. ONG SEE LENG, A study of landfill leachate treatment by PACI, sago starch and tapioca starches, hymenocallis liriosme and aloe vera as coagulants, 2010 (As main supervisor).
17. OSAMA MOHAMMED OTHMAN, The effects of ultraviolet (UV) and electro-fenton at the coliform and COD in leachate landfill, 2012 (AS main supervisor)
18. PUGANESHWARY A/P PALANIANDY, Treatment of leachate from PulauBurung Landfill Site by H ₂ O ₂ oxidation followed by coagulation/flocculation process, 2007 (As main supervisor).
19. RUSYA AZRINA YAHAYA, Physico-chemical treatment using limestone and zeolite in removing COD, ammonia and colour from pre-coagulated semi-aerobic leachate with poly-aluminium chloride and Alum, 2006 (As main supervisor).
20. SAMIR K I MATAR, Potential use of palm oil sludge as landfill liner and capping, (As main supervisor), 2010.
21. SHABNAM KHOSRAVI HAFTKHANI, Treatment of Landfill leachate using a combination of Fenton and coagulation/flocculation techniques, 2009 (As main supervisor).
22. SHAHIN GHAFARI, Coagulation process of semi-aerobic leachate in removing COD, ammonia and suspended solids using polyaluminium chloride, 2005 (As main supervisor).
23. SIM YEE LING, Treatment of textile wastewater using PAC as coagulant and Hibiscus rosa-sinensis as coagulant and coagulant aid, 2010 (As main supervisor).
24. TAN JYY LING, Leachate treatment by Swim-Bed biofringe technology, 2010 (As main supervisor)
25. TAN YONG HAN, Removal of phenols using composite adsorbent (ZELIAC), 2012 (As main supervisor)
26. WAN ROHANA BINTI ZAKARIA, Treatment of leachate from Pulau Burung Landfill Site by coagulation/flocculation followed by H ₂ O ₂ oxidation, 2007 (As main supervisor).
27. YASHRINA MOHAMD YASIM, Evaluation of leachate quantity composition due to biodegradable of different waste composition using physical method, 2008 (As main supervisor).
POST-DOCTORAL AND GRADUATE SUPERVISION
On-Going
i) On-going Ph.D.
1) AIDA SAAD, Energy Use Implications of Effluent Quality Targets for the Oxidation Ditch Process in Wastewater Treatment (As main supervisor).
2) DHEEAA AL DEEN ATALLAH ALJUBOURY New Treatment of petroleum wastewater using the combination of solar photo-three catalysts ZnO, TiO ₂ and photo-Fenton process, (As co-supervisor)
3) HAIDER MOHAMMED NAIMA ZWAIN, Treatment of recycled paper mill effluent using modified anaerobic inclining-baffled reactor (As co-supervisor).
4) MOHD FAIZ MUAZ BIN AHMAD ZAMRI, Development of durian seed coagulant in leachate treatment (As co-supervisor).
5) NOR AZLIZA BINTI AKBAR, Removal of Fe and Mn from groundwater by ozonation (As main supervisor)
6) NURAZIM BINTI IBRAHIM, River Bank/bed Filtration for Drinking Water Source Abstraction: The Study

	On Mechanisms of Surface Adsorption and Filter Straining in Porous Media, (As co-supervisor).
7)	SITI HAFIZAN BINTI HASSAN, Estimating construction waste generation using materials flow analysis approach (As main supervisor).
8)	SITI NOR FARHANA ZAKARIA Performance Of Ozone/Zrcl4 Oxidation In Stabilized Landfill Leachate Treatment, (As main supervisor).
ii) On-going M.Sc. by research	
1)	NAJWA FARDELLA BINTI MOHD SHAM, Combination Treatment for Semi-aerobic Leachate By Using Roughing Filter Followed With Dissolved Air Flotation (DAF) (As co-supervisor).
2)	NORHIDAYAH BINTI AHMAD, Synthesis of Agrowaste Based Activated Carbons by Physiochemical Activation for Dyes Removal: Equilibrium, Kinetic and Thermodynamic Studies (As co-supervisor).
3)	SITI FATIHAH BINTI RAMLI, Coagulation and Flocculation Process in Removing Ammonia, Colour, Suspended Solids, Turbidity and Chemical Oxygen Demand from Landfill Leachate using Ferric Chloride (FeCl ₃), Chitosan and Aloe Vera (As main supervisor).
4)	SITI KHADIJAH BINTI ESA, Performance Evaluation Of Landfill Leachate Treatment For Selected Pollutants Using Composite Fibres (As co-supervisor).
5)	WAN IZATUL SAADIAH BINTI WAN KAMAR, Copperas by-product as coagulant in domestic wastewater treatment (As main supervisor).
c) Undergraduate Supervision (graduated)	
1)	Abdul Latiff Ibrahim, Study on the data optimisation for palm oil wastewater treatment plant at Seberang Perak, 2000/2001.
2)	Adriana a/k Peter Chee, Study on the efficiency of newly designed and operated 3 stage oxidation pond at USM Engineering Campus, 2001/2002.
3)	Ahmad Bukhori bin Najmi, Regeneration of activated carbon and limestone in removing phosphorous and ammoniacal nitrogen from domestic wastewater, 2005/2006.
4)	Ahmad Kamal Arif Mohamad, The degree of compliance of The Environmental Quality Act 1974. Case Study for Industrial and Municipal effluents in Ipoh, 1993/94.
5)	Amirruddin Mohd Shah, The use of natural starch as coagulant aid in water treatment-Case study at Kedah's treatment plant, 1998/99.
6)	Badrul Hisham Bin Nazarudin, Water quality deterioration in Tap Water: Investigation on the compositions of filtered materials, 2006/2007.
7)	Chae Tyng Feng, Advance treatment of leachate effluent from landfill leachate treatment plant using Membrane Filtration., 2006/2007.
8)	Chandra Segar a/l Kalimuthu, Wastewater treatment system, 1999/2000.
9)	Che Lokman bin Abdullah, Solid waste management in Bachok Kelantan, 1999/2000.
10)	Che Mahmud Che Mat, Solid waste management at Tanah Merah- Case study, 2000/2001.
11)	Cheong Kah Win, Potential use of SnCl ₄ as coagulant in leachate treatment, 2015/2016
12)	Chieng Siew Hui, Removal of selected heavy metals and colour from industrial wastewater using limestone particle and waste material activated carbon, 1996/97.
13)	Ching Lee Huat, Comparative study on the effectiveness of aeration process between diffused aerator and surface aerator, 2001/2002.
14)	Dina Mashida Masron, Heavy metals removal by limestone and microorganism-batch study, 2000/2001.
15)	Emmi Farini Md Mohtar, BOD and COD removal from semi-aerobic leachate by limestone filtration, 2003/2004.
16)	Engku Khairulaziz Engku Abdullah, Study on the use of tapioca as a coagulant in water treatment plant, 1995/96.
17)	Faisal Resaik, Physical treatment using mixture of zeolite and activated carbon in removing ammonia, iron and zinc from Pulau Burung semi-aerobic landfill, 2004/2005.
18)	Fikriah Rozlan, Head lost study of various filters in treatment of leachate from Pulau Burung semi-aerobic landfill, 2004/2005.
19)	Goh Wee Siang, Removal of Heavy metals Chromium, Copper and Zinc from wastewater using limestone filtration technique., External supervisor for Kolej IKRAM/UPM student, 2000/2001
20)	Hamidah Abu Bakar, Study on the effectiveness of recycling campaign in Ipoh City Council-quantification of recycled material at Bercham Landfill Site, 2002/2003.
21)	Heng Mui Lee, Physical treatment using mixture of zeolite and activated carbon in removing COD and colour from Pulau Burung semi-aerobic landfill, 2004/2005.
22)	Heng Mui Lee, Zeolite and limestone for removing COD and colour from Pulau Burung Landfill Site., 2004/2005.
23)	Idzwan Bin Mohd Nor, Determination of filtrates trapped in drinking water filtrate at chosen area, 2007/2008.
24)	Jazlan Mohamed Amin, Study on the wastewater treatment plant riched with oil waste from off-shore oil rig at Terengganu, 2000/2001.
25)	Juhaida Mohamad, Determination of surface water quality as an alternative water source-Case study (ex-mining pond water), 1998/99.

26) Junaidah Embok Daik, Treatment of water treatment sludge from Intan Utilities Plant in Parit, Perak, 1997/98.
27) Kar Kin, Initial characterization of semi-aerobic landfill leachate based on its biodegradation, 2008/2009.
28) Kristin Akit, Study on the pollution load of lead and DDT in Malaysian environment, 2001/2002.
29) Kristin Akut, Determination of the Pb and DDT pollution in Malaysia-literature review, 2001/2002.
30) Lau Jian Ning, Filter straining study in river bank filtration, 2015/2016
31) Lau Seng Hock, Use of ion exchange resins in treatment of leachate from Pulau Burung landfill site, 2007/2008.
32) Laura Raymond Boin, Heavy metals removal by a mixture of limestone and silica-batch study, 2000/2001.
33) Lean Kok Woei, Study on the degree of absorption and precipitation of heavy metals reacted with limestone particle, 1998/99.
34) Lee Ngan Siew, Physical treatment using mixture of zeolite and limestone in removing COD and colour from Pulau Burung Landfill Site, 2004/2005.
35) Lee Ngan Siew, Zeolite and limestone for removing ammonia and heavy metal from Pulau Burung Landfill Site., 2004/2005.
36) Leong Chee Kian, Study on the optimisation of coagulant used in treating electroplating wastewater in Simpang Pulai Ipoh, 1994/95.
37) Lim Wai Jim, Study on ladies' finers and bananan fruit as coagulant and coagulant aid in drinking water treatment, 2007/2008.
38) Lo Ming Rui, Application of Hibiscus rosa-sinensis leaf extract as coagulant for semi-aerobic leachate treatment, 2008/2009.
39) Mahadi Bin Muhammad, Advance treatment of leachate effluent from landfill leachate treatment plant using Low-cost Composite Mixture Media., 2006/2007.
40) Mala Marseila Hasanuddin, Relation between various semi-aerobic leachate parameters, 2003/2004.
41) Manogari A/P Sundram, NH ₄ -N removal from treated effluent of leachate treatment plant by Air-stripping Method., 2006/2007
42) Mariaty Perwira, Continuation study on the use of carbon and limestone in removing metallic wastewater, 1999/2000.
43) Masita Mat Taib, Study on the removal of leachate using activated carbon and limestone, 2003/2004.
44) Masri Muda, Initial study on the use of selected plant leaves as coagulant and coagulant aid in water and wastewater treatment, 1999/2000.
45) Mazita Johari, Continuation study on the determination of the degree of adsorption and precipitation of heavy metals from water and wastewater, 1999/2000.
46) Michelle Agnes Pareira, Development of computer programme for designing an extended aeration wastewater treatment plant, 1995/96.
47) Mohammad Fauzi Abdullah, Study on the solid waste generation rate for different socio economic areas in Ipoh and Alor Setar, 1995/96.
48) Mohammad Mohaiyaddin Hasin, Modelling of noise from motorcycle -Case study at USM, 1998/99.
49) Mohammed Ismail, Treatment of iron and manganese from underground water in Kelantan using low cost limestone filter, 1997/98.
50) Mohd Hamizi Abdullah, Study on the use of natural starch as coagulant aid in water and wastewater treatment, 1998/99.
51) Mohd Ikhwan Bin Ahmad, Study of Fly in Engineering Campus (What is the source for the growth of flies?), 2006/2007.
52) Mohd Saidi Awang, Comparative study on solid waste management cost analysis between conventional method and WAGS PROGRAMME for Ipoh Municipal, 1993/94
53) Mohd. Kopply, Suitability of the use of natural polimer (sago) as a coagulant aid in water treatment, 1997/98.
54) Mohd. Munir b. Mohd. Noor, Continuation research on the use of tapioca starch as coagulant and coagulant aid in removing turbidity from water, 1999/2000.
55) Mohd. Nazri Ali, Identification of point source pollution contributed by human activities in City of Ipoh, 1994/95.
56) Mohd. Ridzwan, Determination of residual chlorine in pipelines, 2003/2004.
57) Mohd. Sukri Ahmad, Determination of clinical waste generation rate from northern region hospitals, 1998/99.
58) Mohd. Yusuf Hamat, Study on the non-point source of Sungai Kelantan, 1998/99.
59) Mohd. Zaidi Mohamad Saad, Study on the relation of turbidity and solids content in selected water and wastewater-Case study of particle size, 1999/2000.
60) Muhamad Fahmi Zaid, Development of design parameter for sludge disposal on land, 1999/2000.
61) Muhamad Haziq Bin Abd Razak, Potential Use Of Zirconium (Iv) Tetrachloride As Coagulant To Treat Textile Wastewater, 2014/2015
62) Muhamad Yatim Rosli, Potential use of Titanium Tetrachloride as coagulant to treat semi aerobic leachate treatment, 2013/2014
63) Muhammad Fahmi Shaari, The effect of sample preservation on water and wastewater, 1998/99.
64) Muhammad Khairul Amilin Ismail, Determination of quantity of leachate from Ampang Jajar Landfill Site after more than 8 years of operation, 2001/2002.
65) Muhammad Zamir B. Abd Rahim, Potential Use Of Titanium Tetrachloride As Coagulant To Treat

Textile Wastewater, 2014/2015
66) Munawir Basri, Analyses and development of database of solid waste management data in Malaysia, 1996/97.
67) Munir Nazmi Mohamed, Study on dissolved air flotation sludge for water treatment, 2005/2006.
68) Nazri Shafii, Study on the possibility of upgrading of Imhoff tank into activated sludge process from selected petrochemical industry treatment plant, 2001/2002.
69) Ng Ban Soon, The use of Rotating Biological Contactor (RBC) to treat USM wastewater, 1994/95.
70) Ng See Wai, The effectiveness of limestone filters in removing zinc from wastewater, External supervisor for Kolej IKRAM/UPM student, 2000/2001.
71) Nik Azimatolakma Binti Awang, Hibiscus rosa-sinensis leaf and aloe vera as alternative coagulant in drinking water treatment, 2007/2008
72) Nor Azizah Muhammad, Identification of point source pollution along monsoon drain in USM Perak, 1995/96.
73) Nor Mazana Ismail, Study on odour pollution in Malaysia-A review, 1998/99.
74) Norasman Kadir, Study on recycling of heavy metals from industrial wastewater reacted with limestone particle, 1998/99.
75) Norhasliza Binti Abdullah, Acid leaching and metal recovery study on limestone media after column study, 2000/2001.
76) Norzie Md Yusof, Determination of groundwater pollution by landfill site via well monitoring-Case study at Pulau Burung Landfill Site, 2001/2002.
77) Nur Hidayah Adnan, Study on the effectiveness of limestone filters for removing heavy metals in leachate-Case study at Pulau Burung Landfill Site, 2001/2002.
78) Nurfarahim Binti Rusdizal, Potential Use Of Poly-Aluminium Chloride (Pac) And Tobacco Leaf As Coagulant And Coagulant Aid In Post Treatment Of Landfill Leachate, 2014/2015
79) Nurhidayah Binti Sahhari, Potential Use of Zirconium (Iv) Chloride As Coagulant In Semi-Aerobic Leachate Treatment, 2013/2014
80) Nurhuda Ismail, Determination of daytime and night time air pollutants (TSP and PM ₁₀) in USM Engineering Campus, 2001/2002.
81) Nurun Najwa Khalid, Determination of pollution load in surface runoff at Pulau Burung Landfill Site, 2001/2002.
82) Ooi Jon Sern, Sulphide removal using limestone particle-case study at oil refinery wastewater, 2000/2001.
83) Rafeah Sapari, Physical chemical treatment for COD and heavy metal removal using different media from Pulau Burung landfill leachate: Batch study, 2003/2004.
84) Rafiuddin Bin Yeob Ramli, The use of tapioca starch as coagulant and coagulant aid in leachate treatment, 2010/2011
85) Rasman Rashid, Study on the removal of selected heavy metals (Pb, Cd, Zn, Cu, Ni and Cr) using limestone particle, 1993/94.
86) Rohalina Binti Ramli, Head loss study of filtration column in treating semi-aerobic leachate from Pulau Burung Landfill Site, 2004/2005.
87) Rohalina Ramli, Physical treatment using mixture of zeolite and limestone in removing COD and colour from Pulau Burung semi-aerobic landfill, 2004/2005.
88) Rosafizi Mokhtar, Determination of the effectiveness of Paddle Aerator application on existing oxidation pond at selected site in Taiping and Kuantan, 2001/2002.
89) Ruslan Abu, Study on the regeneration of media from metallic wastewater treatment plant-laboratory scale, 1999/2000.
90) Salina Alias, Modeling of quantity of leachate from a newly designed and operated landfill site-Case study at Pulau Burung Landfill Site, 2001/2002.
91) Salina Hasan, Soil erosion study at Cameron Highland and Penang using geonet and new material, 2000/2001.
92) Sam a/k Budi, Noise pollution study on vehicles, based on ages, strokes, speed and c.c. at USM, 2000/2001.
93) Sharifah Nurhidayah Syed Izham, 'Ground water monitoring around Pulau Burung landfill site', 2003/2004.
94) Sia How Teck, Analyses of heavy metal precipitation in heavy metal removal using limestone particle, 1996/97.
95) Siew Kok Kiong, Study on the influence of raw water pH on the chemical use at selected water treatment plant in Sibul, 2002/2003.
96) Siti Aishah, Coagulation and flocculation effect on heavily polluted pond using alum-case study at USM, 2000/2001.
97) Siti Mariam Ngah, The use of carbon and limestone in heavy metals and colour removal from wastewater, 1998/99.
98) So Lian Kiong, Effectiveness of limestone filters in removing copper from wastewater, External supervisor for Kolej IKRAM/UPM student, 2000/2001.
99) Sujatha a/p Raghavan, Suitability of the use of natural polimer (tapioca) as a coagulant aid in water treatment, 1996/97.
100) Tan Chee Soon, Comparison of leachate quality between anaerobic and semi-aerobic landfill',

External supervisor for UPM student, 2002/03.
101) Tan Kok Lee, Removal of suspended solids, COD, NH ₄ -N and colour from pre-coagulated semi-aerobic leachate using membrane filter, 2008/2009.
102) Tan Yong Han, Post treatment of textile effluent using <i>Zellic</i> , 2010/2011
103) Thagarajan a/l Vellan Thurai, Optimization of wastewater treatment system for palm oil mill effluent, 1999/2000.
104) Thor Ai Keow, The influence of zeolite on activated sludge process in treating COD, ammoniacal nitrogen and colour from semi-aerobic leachate, 2005/2006.
105) Wan Hasan Wan Nawang, EIA case study-Quarry operation, 1998/99.
106) Wan Ikhwan Wan Hussein, Determination of the mechanism of removal heavy metals removal by limestone, 1994/95.
107) Wan Johan Wan Ishak, Determination of environmental baseline data in USM campus, 1996/97.
108) Wan Noraida Wan Musa, Correlation between vehicle density on gaseous and PM ₁₀ pollution at USM, 2000/2001.
109) Wong Chin Yik, Potential use of silt and sludge as landfill capping material, 2012/2013.
110) Wong Kee Ung, Batch Study On the removal of Heavy metals (Copper, Chromium, Zinc and Nickel) From Industrial wastewater by using limestone., External supervisor for Kolej IKRAM/UPM student, 2000/2001
111) Yap Nam Fee, Treatability study for the propose new activated sludge plant to replace present oxidation pond for student hostel at USM Perak Branch, 1993/94.
112) Yong Gok Chong, Advance treatment of leachate effluent from leachate treatment plant using Carbon Water., 2006/2007.
113) Zarina Mohammad Ali, Development of an extended aeration treatment model for treating slaughterhouse wastewater, 1996/97.
114) Zulaikha Bt Kamaludin, Determination of BOD rate of reaction for young semi-aerobic leachate, 2005/2006.
3.0 ACADEMIC RECOGNITION AND LEADERSHIP
a) Academic Awards (Recognition for academic/professional excellence)
1. Appreciation for being elected as a panel for Science & Technology speaker in the Local Radio station in special programme for enhancing Science & Technology awareness, Perak State Government, 1995.
2. Appreciation for being elected as a panel for Science & Technology speaker in the Local Radio station in special programme for enhancing Science & Technology awareness, Perak State Government, 1996.
3. British Gas Scholarship for M.Sc. Selected to be the recipient for Malaysia, 1988-1989, 1988.
4. Consolation Prize for Excellence in Research Award given by on research entitled 'Development of laboratory treatment plant for removing heavy metals from laboratory wastewater', Perak Foundation, 1997.
5. Fellow. Congress Of Chemistry And Environment (FICCE), 2003 to date, 2004.
6. Invited to attend AUN/SEED-Net Field-Wise Meeting Seminar in Civil Engineering', October 31 to November 3, 2007. of Chulalongkon, Bangkok
7. Invited to attend AUN/SEED-Net Field-Wise Meeting Seminar with the theme 'Engineering Solutions to Environmental Challenges: A Regional Collaborative Approach', August 1-2, 2006 in Makati, Manila, Philippines., 1-2 August 2006.
8. Invited to attend AUN/SEED-Net Field-Wise Meeting Seminar with the theme 'Asia link in environmental engineering education and research', November 30 to December 1, 2005, Horizon Hotel, Hanoi, Vietnam, November 30-December 1, 2005
9. Maal Hijrah Excellence Award, USM, USM, 2011.
10. Recipient of Excellence Services Award for year 1996, School of Civil Engineering, USM. Total similar Award conferred for the whole USM was 62 out of more than 5,000 staffs, Universiti Sains Malaysia, 1997.
11. Recipient of The Best Researcher Award for the School of Civil Engineering, Universiti Sains Malaysia, 2002.
12. Selected to attend the NEDO Programme on Industry and Environmental Protection for ASEAN, sponsored by New Energy and Industrial Technology Development Organization and implemented, Association for Overseas Technical Scholarship (AOTS), Kansai Kenshu Center (KK, 1998.
13. Top Research Scientist Malaysia, Akademi Sains Malaysia, 2012.
b) Assessor / Examiner
i) Academic Assessor/External Examiner/ Member of Board of Studies
1. Curriculum Assessor for Master of Engineering programme, UTM, 2009
2. Advisory Committee Member, B.Eng. (Environmental Engineering), Universiti Malaysia Perlis (Unimap), 2007.
3. External Examiner for Civil and Environmental Engineering Programme, Faculty of Engineering, Universiti Kebangsaan Malaysia, 2013-2015
4. Panel Advisory Board, Diploma in Civil Engineering, Politeknik Tuanku Sultanah Bahiyah, Kulim, Kedah, Malaysia, 2013-2015; 2016 to date

ii)	External Examiner for Thesis Ph.D.
1.	Abdul Haqi Ibrahim, Penyingkiran bahan organik daripada efluen kilang minyak sawit (POME) melalui proses sono-fenton heterogen berudara (In Malay), Ph.D., Faculty of Engineering and Built Environment, UKM, 2015.
2.	Abdulbari Abdulrahman Ahmad, Preparation and characterization of mesoporous activated carbons from rattan and bamboo waste for color and COD removal, Ph.D thesis, School of Chemical Engineering, Universiti Sains Malaysia, 2010
3.	AmirHossein Malakahmad, ~An application of zero-waste anaerobic baffled reactor (ABR) to produce biogas from municipal solid waste UKM, Ph.D Thesis, 2006
4.	Choudhary, A.K. Monitoring and removal of chloro compounds from pulp and paper mill wastewater, Ph.D. thesis, Department Of Paper Technology, Indian Institute Of Technology Roorkee, India, 2013
5.	Emad Soliman Mohammed Elmolla, Development of A Treatment System For Antibiotic Wastewater, Ph.D Thesis, Civil Engineering Department, Universiti Teknologi Petronas, 2010
6.	Fatimah, Ph. D. (Civil) Thesis, National University of Malaysia (UKM) ~GIS Expert System for landfill siting, 2003
7.	Gasim Hayder Ahmad Salih, Treatment of petroleum refinery wastewater using multi stage biological reactor, Civil Engineering Department, Universiti Teknologi Petronas, 2012.
8.	Hampannavar, U.S. Studies on treatment of sugar industry wastewater with UASB and Hybrid-UASB reactors in parallel, Ph.D. Thesis, Visvesvaraya Technological University, India, 2011, , Visvesvaraya Technological University, India, -
9.	Hesam Kamyab, Lipid production from palm oil mill effluent (POME) by microalgae, Faculty of Civil Engineering, UTM, 2016.
10.	Johan Sohaili, Ph.D. (Civil) Thesis, University Of Technology Malaysia (UTM), ~Magnetic effect on the removal of suspended solids in wastewater, 2003
11.	Khalida binti Muda, Facultative granular sludge for textile dyeing wastewater treatment , Ph.D. Thesis, Faculty of Civil Engineering, UTM, 2009
12.	Latifah binti Abd Manaf, Ph.D. Thesis (Civil), National University of Malaysia (UKM), ~Expert system for integrated solid waste management via internet, 2004
13.	Md. Nurul Islam Siddique, Intensified Continuous Stirred Tank Reactor For Enhanced Degradation Of Petrochemical Waste Water To Methane, Ph.D., Faculty of Engineering Technology, UMP, January 2015.
14.	Moh Faiqun Ni'am, Suspended solid removal in wastewater using electrocoagulation and magnet, Ph.D. thesis, UTM, 2011, Universiti Teknologi Malaysia
15.	Ngu Lock Hei, Development and optimization of circular phase separator with dual angle coalescence plates for removal of suspended solids, free and physically emulsified oils from wastewaters, Ph.D. Thesis, Universiti Malaysia Sarawak, 2008
16.	Norazli binti Othman, Penilaian kitaran hidup terhadap pengurusan bersepadu sisa pepejal (plastik elektronik) di Malaysia, Ph.D. Thes is, Fakulti Kejuruteraan dan Alam Bina, Universiti Kebangsaan Malaysia, 2008
17.	Norzila Othman, Municipal sludge characteristic and biodegradation of selected PAHs by indigenous bacteria strains, Ph.D. Thesis, Faculty of Civil Engineering, UiTM, 2010
18.	Nur Amani Filzah binti Mohd Kamil, Bioremediation of Polycyclic Aromatic Hydrocarbon (PAHs) in Artificially Contaminated Sand, Universiti Teknologi MARA, 2013.
19.	Oyeleke RaifuBrown. Potential of kaolin-palm oil fuel ash mixture as sustainable landfill liner material, Ph.D. thesis, Faculty of Civil Engineering, UTM, 2013
20.	S. Om Guru Prakash, Kinetics and biodegradation of phenolic compounds using immobilized whole-cell technique, Ph.D Theis, J.S.S Research Foundation, Department of Environmental Engineering, SJ College of Engineering Campus, Mysore, India, 2010
21.	Shahabaldin Rezania, Raw material from water hyacinth as the alternative energy-fuel and bioremediation applications, Faculty of Civil Engineering, UTM, 2016
22.	Shantha Kumari A/P Muniyandi, Encapsulation of toxic nonmetallic printed circuit board waste with recycled high density polyethelene for composite material production, Ph.D., Faculty of Civil Engineering, UTM, 2015.
23.	Sharifah binti Abdullah. Development of integrated kenaf core cellulose nanofiltration flat sheet membrane system for batik wastewa, Faculty of Civil Engineering, UiTM, 2016
24.	Studies on treatment of hard chrome plating effluents', Ph.D. thesis, Indian Institute of Technology, Kanpur, 2003.
25.	Taimur Khan. Rice husk-based adsorbents for the treatment of metal finishing wastewater, Faculty of Civil Engineering, UTP, 2016
26.	Tandel Bhaven Nirmalbhai, Urban road traffic noise: Prediction optimization model using Genetic Algorithm and Audiometric assessment, Sardar Vallabhbai National Institute of Technology (SVNIT), Surat, Ichchhanath, Surat-395007 (Gujarat), India, 2014
27.	Tiew Kian Ghee, Developing solid waste recycling management model for Malaysia based on

community behaviours studies, Ph.D., Faculty of Engineering and Built Environment, UKM, 2016.
28. Treatment and reuse potential of mosque greywater in Yamen, Ph.D. Thesis, Faculty of Engineering and Built Environment, UKM, 2013
29. U.S. Shivayogimath, Studies on treatment of sugar industry wastewater with UASB and Hybrid-UASB reactors in parallel. Ph.D Thesis, Department of Civil Engineering , Basaveshwar Engineering College, Bagalkot, India, 2011
30. Umarani, R. Enhancing the sludge reduction potential of dairy waste activated sludge by various physic chemical pretreatments, Ph.D. thesis, Anna University, Faculty Of Civil Engineering, Chennai 600025, India, 2013
31. Zarasvand Asadi, Development of stepped solar still for treatment of sanitary and industrial wastewaters, Rada, Universiti Kebangsaan Malaysia, Faculty of Engineering and Built Environment, 2012.
M.Sc.
1. Abdurahman Saleh Mahmud, Treatment and phytoremediation of leachate from Bukit Tagar Landfill, M.Sc. candidate, Institute of Biological Science, Faculty of Science, M.Sc. Thesis, University of Malaya, 2011
2. Ahmad Nazmi Bin Roslan, Quality Improvement of landfill Leachate by electrocoagulation process, Faculty of Civil Engineering, University of Technology Malaysia, 2013.
3. Aida binti Muhamad, "Study on metal and PAHs compound pollutions at Sembrong River, Batu Pahat, Civil & Environmental Engineering Department, KUiTTHO, M.Sc. Theisi, 2007
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7. Beh Shiau Hewi, Evaluation of the potential reduction in landfill gas emissions through composting, University of Malaya, 2013.
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12. Habsah binti Alwi, "Coagulant from banana stem juice for treatment of obstinate spent coolant, M.Sc. Thesis, Chemical Engineering Department, UiTM, 2007, 2007., National
13. Lim Yee Nah, "Treatment of industrial wastes using granular activated carbon (GAC), M.Sc. Thesis, University of Malaya, 2006
14. Liyana Izzati binti Aris, Analysis of plastic debries on Malaysian beaches, Master of Technology (Environmental Management), University of Malaya
15. Liza Evianti Tanjung, Assessment of heavy metal deposition in surface sediment and water in Balok river and Tunggak river Kuantan Malaysia, M.Sc. Thesis, Universiti Malaysia Pahang.
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17. Mohammad Arif Budiman Bin Fauzan, Batch microcosm studies of landfill leachate, M.Sc., Faculty of Civil Engineering, UTM, 2016.
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21. Muhamad Fahmi bin Shukor, Batch microcosm studies of landfill leachate, M.Sc., Faculty of Civil Engineering, UTM, 2016.
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23. Muhammad Nabil Fikri bin Yahaya, Characterization of polyvinylidene fluoride hollow fiber membrane with antifoulant nanoparticles for advanced water treatment, M.Sc., Faculty of Civil Engineering, UTM,

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24. Musa Mutah Lalai, Sugarcane Bagasse Activated Carbon with Hydrated Iron Modification for the Removal of Cadmium, Faculty of Civil Engineering, University of Technology Malaysia, 2013.
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26. Newati binti Wid, "Adsorptive removal of cationic and anionic dyes from solutions using iron oxide-coated zeolite (IOCZ), UMS, M.Sc. Thesis, 2006
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31. Rumana Ghufuran, Anaerobic treatment of palm oil mill effluent (POME) up-flow anaerobic sludge Blanket (CIASB) system, Master of Engineering (Civil Engineering), University Malaysia Pahang (UMP).
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34. Sanaz Sarafraz, Wastewater treatment using horizontal subsurface flow constructed wetland, M.Sc. thesis, Fakulti Kejuruteraan, Universiti Putra Malaysia, 2008
35. Syamimi binti Md Jamal. Characterization of alginate-like exopol exopolysaccharides from aerobic granules treating industrial wastewater, M.Sc. thesis, Faculty of Bioscience and Medical Engineering, UTM, 2016
36. Siti Nur Syahira binti Mohd. Adnan, Analysis and assessment of sediment quality and soil geochemistry of Ampar Tenang landfill site, Selangor, Malaysia, (KGA110086), University of Malaya, Faculty of Engineering, 2012
37. Sri Norleha Binti Basri, Removal of heavy metal ions from aqueous solution by carboxymethyl sago starch and carboxymethyl sago starch/chitosan hydrogels, M.Sc., Faculty of Science, UPM, 2015.
38. Sumathi a/p Balasubramaniam, M.Sc. Thesis, University of Malaya (UM), "Solidification and stabilization of electronic industry waste, 2004
39. Tengku Hazmin Hanum Tengku Hamzah, "Pollytant profiles during all leachate attention in momogeneous medium, M.Sc. Thesis, Faculty of Civil Engineering, UiTM, 2008
40. Zawawi bin Daud, Master of Science (Civil) Thesis, University Of Technology Malaysia (UTM), Water quality model of Semberong River using Qualze software-Case study, 2000
41. Zularisam Ab. Wahid, Master of Science (Civil)Thesis, University Of Technology Malaysia (UTM), "The use of magnetic field in domestic wastewater treatment, 2001
42. Zulfa, 'Leachate treatment by magnetic field,Ph.D., Faculty of Civil Engineering, UTM, 2008.
iii) Internal Examiner
1. Abdullahi Abdulrahm, Development of geoelectrical techniques for subsurface characterization and contaminant plume mapping at landfill sites, Ph.D. thesis, School of Physical Sciences, USM, 2016P.
2. Adel Ali Saeed Abduh, 'Reduction of pathogenic bacteria, sorption of heavy metals and enzymatic biodegradation of B-Lactam Antibiotics in sewage treated effluents, School of Industrial Technology, USM, June 2013
3. Afizah Ayob, "Composting of municipal solid waste', M.Sc., School of Civil Engineering, USM, June 2005.
4. Ahmad Zuhairi Abdullah, Master of Science, University of Science Malaysia (USM), 'Treatment of palm oil effluent by random media tricking filter PVC', M.Sc., 2000.
5. Al Faqeih, Omar Saeed M. The impact of training strategies to develop human resources in the national water company in the Kingdom of Saudi Arabia, School of Housing, Building & Planning, USM, 2013.
6. Al Faqeih, Omar Saeed M. The impact of training strategies to develop human resources in the national water company in the Kingdom of Saudi Arabia, School of Housing, Building & Planning, USM, 2013.
7. Goh Hui Weng, Influence of enhanced bioretention media and tropical shrub on nutrient removal for urban runoff in mixed development area, River Engineering and Drainage Research Center, USM, 2016.
8. Husnuul Azan, 'Anaerobic digestion of municipal solid waste', M.Sc., Civil Engineering, USM, 2007
9. Kharulnisa Nadiyah Hussain Synthesis and characterization of PSf-SiO ₂ mixed matrix membrane oil emulsion, Universiti Sains Malaysia, School of Chemical Engineering, 2012.
10. Law Meow Hua, 'Study on the removal of physical and chemical parameters in leachate using zeolite and limestone mixture', M.Sc., School of Civil Engineering, USM, May 2005
11. Noor Faizah Fitri Md Yusof, 'Predicting air pollutants using probability distributions-A case study of Penang', M.Sc., School of Civil Engineering, USM, June 2005.
12. Noor Zaitun Haji Yahya, M.Sc. (Civil), University of Science Malaysia (USM), 'Air pollution from vehicle

	in Ipoh', 2003.
	13. Nor Akmal Rizal Mansor, Potential of durian seed as a natural coagulant in treating printing industry wastewater, Universiti Sains Malaysia, School of Civil Engineering, 2012.
	14. Norshafa Elyza Muha, 'Leachate treatment by granular activated carbon', M.Sc., School of Civil Engineering, USM, May 2005.
	15. Papa Secka, M.Sc., University of Science Malaysia (USM), 'Municipal solid waste landfill leachate characterization and treatment', 2002.
	16. Preparation and characterization of mesoporous activated carbons from rattan and bamboo waste for color and COD removal, Abdulbari Abdulrahman Ahmad, Ph.D candidate, School of Chemical Engineering, Universiti Sains Malaysia, 2010
	17. The development of a low cost static olfactometer for environmental odour assessment, M.Sc. candidate, School of Civil Engineering, Universiti Sains Malaysia, 2014
	18. Tengku Ismadi, M.Sc, 'Metals removal by modified Activated carbon', School of Materials & Mineral Resources Engineering, USM.
	19. Yong Rashidah Binti Mat Tuselim@ Selamat, Master of Science, University of Science Malaysia (USM), 'A study on the effectiveness of using a bio-physical pilot plant RBC- sedimentation as a secondary treatment of leachate', M.Sc., 2002.
iv)	External Assessor for Promotion
	Professor
	1. External promotion (Professor), Universiti Tuanku Abdul Rahman, 2008
	2. External Promotion Assessor (Prof.), Faculty of Civil Engineering, University of Technology Malaysia (UTM), 2013.
	3. External Assessment for promotion exercise to Professor, University of Haripur, Khyber Pakhtunkhwa, Hattar Road, Near Swat Chowk, Tehsil & District, Haripur, Pakistan, April 2015.
	4. External Assessor for promotion exercise to Professor, Faculty of Engineering and Built Environment, UKM, June 2015.
	Associate Professor/Senior Lecturer
	1. External assessor for the ITB International Research Program 2008, entitled Methane Oxidation Capacity of Different Cover Materials Adapted to Indonesian Landfill Enri Damanhuri
	2. External Promotion Assessor (Associate Prof.), Faculty of Civil Engineering, University of Technology Malaysia (UTM), 2007.
	3. External Promotion Assessor (Associate Prof.), Faculty of Civil Engineering, University of Technology Malaysia (UTM), 2003.
	4. External Promotion Assessor (Associate Prof.), Faculty of Civil Engineering, University Tun Hussein Onn (UTHM), 2011.
	5. External Promotion Assessor (Associate Prof.), Faculty of Engineering, National University of Malaysia (UKM), 2003.
	6. External Promotion Assessor (Associate Prof.), Pusat Pengajian Sains Sekitaran & Sumber Alam, UKM, 2012
	7. External Promotion Assessor (Senior Lecturer) (Contract) at Universiti Teknologi Malaysia, Faculty of Civil Engineering, 2012.
	8. External Promotion Assessor (Associate Prof.), Faculty of Civil Engineering, University of Technology Malaysia (UTM), March, 2013.
	9. External Promotion Assessor (Associate Prof.), Faculty of Civil Engineering & Earth Resources, Universiti Malaysia Pahang (UMP), 2013.
	10. External Promotion Assessor (Prof.), Faculty of Civil Engineering, University of Technology Malaysia (UTM), May 2013.
	11. External Promotion Assessor (Associate Prof.), Faculty of Civil Engineering, University of Technology Malaysia (UTM), July, 2013.
	12. External Promotion Assessor (Associate Prof.), Faculty of Science, University of Technology Malaysia (UTM), August, 2013.
	13. External Promotion Assessor (Associate Prof.), Faculty of Civil Engineering, University of Technology Malaysia (UTM), March 2014
	14. External Promotion Assessor (Associate Prof.), Department of Civil Engineering, University of Putra Malaysia (UPM), April 2014
	15. External Promotion Assessor (Associate Prof.), Faculty of Civil Engineering, University of Technology Malaysia (UTM), August 2014
	16. External Promotion Assessor (Reader), Faculty of Agricultural Engineering, The Federal University of Technology, Akure, Nigeria, September 2014
	17. External Assessor for promotion exercise to Associate Professor, Faculty of Civil Engineering, UTM, May 2015a.
	18. External Assessor for promotion exercise to Associate Professor, Faculty of Civil Engineering, UTM, May 2015b.

19.	External Assessor for promotion exercise to Associate Professor, Faculty of Engineering and Built Environment, UKM, April 2015.
20.	External Assessor for promotion exercise to Associate Professor, Faculty of Civil and Environmental Engineering, UTHM, November, 2015.
v) Assessor/Professional Examiner	
1.	Assessor for the appointment of registered EIA consultant by the Department of Environment Malaysia. M.Sc. Thesis, University of Malaya, 2009.
2.	Assessor for the appointment of registered EIA consultant by the Department of Environment Malaysia, 2007.
3.	Detailed EIA review expert panel, appointed by MOSTI for proposed Iron Ore Pellet Plant* at Teluk Kalong Industrial Estate, Kemaman Terengganu Oleh Tetuan Grange Resources Ltd (Australia), 2005.
4.	Detailed EIA review expert panel, appointed by MOSTI for proposed sanitary landfill at Mukim Jeram, Daerah Kuala Selangor, Selangor Darul Ehsan, 2006., National
5.	Detailed EIA review expert panel, appointed by MOSTI for proposed sanitary landfill at Sungai Udang Melaka, 2010.
6.	Detailed EIA review expert panel, appointed by MOSTI for proposed sanitary landfill at Belengu Mukim Perak, District Of Temerloh, Pahang Darul Makmur, 2010.
7.	Detailed EIA review expert panel, appointed by MOSTI for proposed sanitary landfill at Tanah Merah, Negeri Sembilan, 2011.
8.	Detailed EIA review expert panel, appointed by MOSTI for proposed sanitary landfill at Mukim Titi Tinggi, Perlis, 2011,
9.	Detailed EIA review expert panel, appointed by MOSTI for proposed sanitary landfill at Teluk Mengkudu Manjung, Perak, 2011
10.	Detailed EIA review expert panel, appointed by MOSTI for proposed sanitary landfill On Lots 8260 And Pt15315 At Kg Tertak Batu Mukim Rusila, District Of Marang Terengganu, 2011., National
11.	Detailed Environmental Impact Assessment For The Proposed Waste Detailed EIA review expert panel, appointed by MOSTI for proposed Transfer Station At Section 21, Shah Alam, Selangor Darul Ehsan (SATS), 2006
12.	Detailed Environmental Impact Assessment Report, Environmental Management Plan (EMP) and Erosion and Sediment Control Plan for the Development of forest plantation in Gunung Inas forest reserved Mukim Bakai, Kupang and Pulau District of Baling, Kedah Darul Aman, by Perbadanan Menteri Besar Kedah Sdn. Bhd., 2013
13.	Invited by Department of Environment, MOSTI, As Expert Panel In Evaluating The Terms Of Reference, (TOR) For Detailed EIA for the Proposed Project Entitled "Sanitary Landfill" at Mukim Jeram, Kuala Selangor District, Selangor Darul Ehsan, ,4 October 2006
14.	Invited by Department of Environment, MOSTI, As Expert Panel In Evaluating The Terms Of Reference, (TOR) For Detailed EIA for the Proposed Project Entitled "Sanitary Landfill" at Kuala Langat, Selangor Darul Ehsan, 2007
15.	Invited by Department of Environment, MOSTI, As Expert Panel In Evaluating The Terms Of Reference, (TOR) For Detailed EIA for the Proposed Project Entitled "Iron Ore Pellet Plant',Teluk Kalong Industrial Estate, Kemaman Terengganu By Tetuan Grange Resources Ltd (Australia), 18 October 2005
16.	Invited by Department of Environment, MOSTI, to evaluate the Detailed EIA Report for the Proposed Project Entitled "Iron Ore Pellet Plant',Teluk Kalong Industrial Estate, Kemaman Terengganu By Tetuan Grange Resources Ltd (Australia)., July 2006
17.	Detailed EIA Technical Committee Member, Ministry of Science, Technology and Innovation, for the proposed construction of Waste to Energy ?WtE) plant at Kepong Solid Waste Transfer Station, Kuala Lumpur, February 2016.
vi) Assessor for Professional Membership	
1.	Assessor for a membership at the Association of Professional Engineers and Geoscientists of Alberta, Candidate Dr. Rezaur Rahman Bhuiyan, May 2013
c) Visiting Professor / Other Appointment (Inclusive Chair)	
1.	Visiting Research Fellow to Department of Environmental Engineering, Kyoto University, Japan, under JSPS Programme, 29 August to 11 September 1997
2.	Visiting Research Fellow to Kyoto University Japan under the Memorandum of Understanding for Scientific Cooperation between JSPS (Japan Society for the Promotion of Science) and VCC (Vice-Chancellors' Council of National Universities in Malaysia). Activities in Prospects: Dynamic performance of environmental trace contaminants and the related health risks, 15 July to 23 July 2000
3.	Visiting Research Fellow to Kyoto University Japan under under the Memorandum of Understanding for Scientific Cooperation between JSPS (Japan Society for the Promotion of Science) and VCC (Vice-Chancellors' Council of National Universities in Malaysia), 9 th to 20 th . December 2003
4.	Visiting Research Fellow to visit Kyoto University Japan under the Memorandum of Understanding for Scientific Cooperation between JSPS (Japan Society for the Promotion of Science) and VCC (Vice-

Chancellors' Council of National Universities in Malaysia). Activities in Prospects: Dynamic performance of environmental trace contaminants and the related health risks, 2 nd . to 10 th . February 2002
5. Visiting Scientist to visit Kyoto University Japan under the Memorandum of Understanding for Scientific Cooperation between JSPS (Japan Society for the Promotion of Science) and VCC (Vice-Chancellors' Council of National Universities in Malaysia). Activities in Prospects: Basic Environmental Technology for Zero Discharge-Solid Waste Management & Incineration. 18-30 September 2006.
d) Academic or Professional Journals / Assessor of Working Papers
1. A Combined Electrocoagulation-Electroperoxidation Process for the Tertiary Treatment of Domestic Wastewaters, <i>Journal of Environmental Sciences</i> , JES-D-15-01195, 2015.
2. A Comparative Optimization Study for Biological removal of Various Inorganic Nitrogen sources along with COD from Wastewater using Response Surface Methodology, <i>Clean-Soil, Air, Water (clen.201300235)</i> , 2013
3. A comparative study on the performance of different advanced oxidation processes (UV/O3/H2O2) treating linear alkyl benzene (LAB) production plant's wastewater, <i>Journal of Industrial and Engineering Chemistry (JIEC-D-13-00725)</i> , 2013
4. A Fractional Factorial Field Experiment To Study The Decomposition Of Municipal Solid Wastes Stored In Wrapped Bales, <i>Journal of Environmental Management (JEMA-D-12-01396)</i> , 2012
5. A Generalized Optimal Vehicle Routing Model for Municipal Solid Waste Collection, <i>Waste Management</i> , WM-15-2392, 2016.
6. A Linear Cost Model Application for Solid Waste Collection Routes Selection, <i>Journal, Institution of Engineers Malaysia (IEM)</i> , 1998
7. A new computational control strategy for leachate management in bioreactor landfills, <i>Water Research (WR22263)</i> , 2012
8. A novel adsorption refrigerator with solid adsorption pair of activated carbon/CaCl ₂ and ammonia, <i>Environmental Progress & Sustainable Energy (EP-14-087)</i> , 2014
9. A novel adsorption refrigerator with solid adsorption pair of activated carbon/CaCl ₂ and ammonia, <i>Environmental Progress & Sustainable Energy (EP-14-087)</i> , <i>Environmental Progress & Sustainable Energy</i> , , 2014
10. A novel pretreatment process of mature landfill leachate with ultrasonic activated persulfate: Optimization using integrated Taguchi method and response surface methodology, <i>Process Safety and Environmental Protection</i> , PSEP-D-15-00202, 2015.
11. A Perspective on LCA Application in Site Remediation Services: Critical Review of Challenges, <i>Journal of Hazardous Materials</i> , 2009
12. A simple sensor placement approach for regular monitoring and contamination detection in water distribution networks, <i>KSCE Journal of Civil Engineering</i> , KSCE-D-15-00024, 2015.
13. A statistical experiment design approach for the treatment of landfill leachate by photoelectro- Fenton process, <i>Journal of Environmental Engineering</i> , 2011
14. A study on construction and demolition wastes from buildings in Seberang Perai, <i>Proceedings, Third National Conference in Civil Engineering (AWAM 2004)</i> , Copthorne Orchid, Tanjung Bungah, Penang, Nor Azam Ramli, et.al., 2004
15. Absorbent Hygiene Products: The bottom-line for waste management, <i>Waste Management (WM-14-145)</i> , 2014
16. Accumulation and fraction distribution of Ni(II) in sludge of the wastewater treatment process, <i>Environmental Technology (OA-2012-1216)</i> , 2012
17. Acid Mine Drainage (AMD) treatment: neutralisation and toxic elements removal with unmodified and modified limestone, <i>Ecological Engineering (ECOLENG-D-14-00863)</i> , 2014
18. Adsorption of Aqueous Fluoride and Ferrocyanide by Liner Minerals from Spent Potliner Landfill-Induced Leachate, <i>Journal of Hazardous Materials</i> , 2010
19. Adsorption of basic dye (Methylene blue) onto raw and surface modified mango seed kernel powders, <i>Chemical Engineering Journal (CEJ-D-12-02089)</i> , 2012
20. Adsorption of bentazon on activated carbon prepared from Lawsonia inermis wood: Equilibrium, kinetic and thermodynamic studies, <i>Arabian Journal of Chemistry (ARABJC-D-12-00011)</i> , 2012
21. Adsorption of cesium from aqueous solution using agricultural residue - walnut shell: Equilibrium, kinetic and thermodynamic modeling studies, <i>Water Research (WR22885)</i> , 2013
22. Adsorption of Cu(II), Pb(II) and Cd(II) from aqueous solution onto functionalized SBA-15 mesoporous silica, <i>Environmental Progress & Sustainable Energy</i> , 2011
23. Adsorption of leachates treated by Fenton/filtration, <i>Waste Management & Research (WMR-12-0186)</i> , 2012
24. Adsorption of lead from aqueous solutions to bentonite and fly ash composite, <i>International Journal Of Environmental Pollution</i> , 2007
25. Adsorption of Pb ²⁺ , Cd ²⁺ , Cu ²⁺ and Zn ²⁺ from aqueous solution by 2 modified sugarcane bagasse, <i>Environmental Progress & Sustainable Energy</i> , 2013, <i>Environmental Progress & Sustainable Energy (EP-12-259)</i> , 2013

26. Adsorption of Pb ²⁺ , Cd ²⁺ , Cu ²⁺ and Zn ²⁺ from aqueous solution by modified sugarcane bagasse, <i>Environmental Progress</i> (EP-12-259), 2012
27. Adsorption of Selected Endocrine Disrupting Compounds and Pharmaceuticals on Activated Biochars, <i>Environmental Science & Technology</i> (es-2013-01829), 2013
28. Adsorption optimization of fluoride on nano-adsorbent Magnesium incorporated Hydroxyapatite for potable water, <i>Chemosphere</i> , CHEM37245, 2015.
29. Adsorption optimization of fluoride on nano-adsorbent Magnesium incorporated Hydroxyapatite for potable water, <i>Chemosphere</i> , CHEM37245, 2015.
30. Adsorptive Removal of Ciprofloxacin Hydrochloride from Simulated Wastewater Using Sawdust: Kinetic Study and Effect of pH, <i>Bioremediation Journal</i> , 2011
31. Adsorptive treatment of brewery effluent using activated <i>Chrysophyllum albidum</i> seed shell carbon, SpringerPlus (Manuscript 2278134661191505), 2014
32. Advanced oxidation treatment of recalcitrant wastewater from a wood-based industry: a comparative study of O ₃ and O ₃ /UV, <i>CLEAN-Soil, Air, Water</i> (clen.201400521), 2014
33. Advanced treatment of composting leachate for irrigation usage, <i>Journal of Agricultural Science and Technology</i> (J. 8039-93), 2014
34. Aerobic biotransformation of N-nitrosodimethylamine and N-nitrodimethylamine 1 by benzene, 2 butane, methane, propane and toluene fed cultures, <i>Bioremediation Journal</i> , 2011
35. Air pollution problem and high temperature gas cleaning in Malaysia, <i>Journal of Institution of Engineers Malaysia</i> (IEM), 2003
36. Ammonia removal from landfill leachate using Gördes (Turkish) clinoptilolite, <i>Journal of Hazardous Materials</i> (HAZMAT-D-06-01020), 2006
37. Ammonia removal from waters with natural zeolite clinoptilolite using the flocculation or filtration techniques, <i>Current Green Chemistry</i> (BSP-CGC-2013-17), 2013
38. An efficient and environmental friendly information technology (IT) solution for hospitality Industry, <i>Proceedings Environment Malaysia Conference, Mines Conference Centre, Kuala Lumpur, 13-14 July, 1999</i>
39. An Experimental Evaluation of Municipal Leachate Treatment using Up-flow Anaerobic Lagoon, <i>Water and Environment Journal</i> , 2011
40. An overview of food waste management in developing countries: current status and future perspective, <i>Journal of Environmental Management</i> , JEMA-D-15-00089, 2015.
41. Anaerobic/Aerobic/Coagulation Treatment 1 of Leachate 2 from MSW Incineration Plant, <i>Environmental Technology</i> , 2011
42. Analysis of electro-oxidation suitability for landfill leachate treatment through an experimental study, <i>Waste Management</i> (WM-13-431).
43. Analysis on (Construction) Project Delay-Risk, <i>Proceedings, International Conference on Mathematics, Engineering & Industrial Applications 2014 (ICoMEIA 2014)</i> on 28th ~ 30th May, 2014, Penang, Malaysia (Paper 132), 2014
44. Applicability of Solidified/Stabilized Dye Sludge Char as a Landfill Cover Material, <i>KSCE Journal of Civil Engineering</i> , KSCE-D-16-00064, 2016.
45. Application of 3A Molecular Sieve and Clinoptilolite for the removal of Mn ²⁺ from BPOME: Process Optimization Using Response Surface Methodology, <i>Journal of Taibah University for Science</i> , JTUSCI-D-15-00060, 2015.
46. Application of a compound containing silica for removing ammonium in aqueous media, <i>Environmental Progress & Sustainable Energy</i> (EP-13-295), 2013
47. Application of a Taguchi L16 orthogonal array for optimizing the removal of acid orange 8 by carbons with low specific surface area., <i>Chemical Engineering Journal</i> , 2010
48. Application of artificial neural network to optimize the process of adding natural dolomite in Activated sludge for municipal wastewater treatment, <i>Environmental Engineering and Management Journal</i> (EEMJ_438), 2012
49. Application of electrodeposition treatment to stabilize heavy metals from MSWI fly ash, <i>Waste Management</i> (WM-12-555), 2012
50. Application of response surface method for coagulation process in leachate treatment as pretreatment for Fenton process, <i>Journal of Water Process Engineering</i> (JWPE-D-14-00128), 2014
51. Application Of Response Surface Methodology For Optimization Of Fenton Process For Phenanthrene Removal From Soil, <i>Environmental Engineering and Management Journal</i> (EEMJ_12_205), 2012
52. Application Of Response Surface Methodology In Electroless Plating Industry Wastewater Treatment Using Polyacrylamide, <i>Jurnal Teknologi, UTM</i> (JT-1719), 2013
53. Application of response surface methodology to optimize degradation of Polyacrylamide in aqueous solution using heterogeneous Fenton process, <i>Desalination and Water Treatment</i> (TDWT-2013-0697), 2013
54. Application of Sea Water Microflora for Treatment of Landfill Leachate, <i>International Journal of Biochemistry and Biotechnology</i> (IJBB-12-052), 2012
55. Applying Artificial Neural Networks And Remote Sensing To Estimate Chlorophyll-A Concentration In Water Body, <i>The International Association of Science and Technology for Development</i> (IASTED 2007),

2007
56. Applying hybrid coagulants and polyacrylamide flocculants in the treatment of high-phosphorus hematite flotation wastewater (HHFW): optimization through response surface methodology, Separation and Purification Technology, 2010
57. Appraisal of Air Bubbles Discharge Measurement Technique for Different Nozzle Sizes, Water Science and Technology, WST-EM15289, 2015.
58. Appropriate strategies for leachate management in developing country, Proceedings International Conference on Humid Tropics, Casuarina Parkroyal Hotel, Ipoh, 24-26 November, 1998
59. Asphaltene biodegradation under shaking and static conditions, Fuel (JFUE-D-13-01187), 2013
60. Assessing Biodiversity Importance in South Korea, KSCE Journal of Civil Engineering (KSCE-D-13-00678), 2013
61. Assessing the applicability of the nephelometric turbidimeter monitoring system: A theoretical approach, Environmental Engineering Science, 2010
62. Assessing the performance of gas collection systems in select Chinese landfills according to the LandGEM model: drawbacks and potential direction, Environmental Technology (TENT-TENT-2014-0360), 2014
63. Assessment of beneficial uses of construction and demolition debris in China, International Journal of Environmental Engineering and Science, 2009
64. Assessment of Factors Attracting Waste Recycler Behaviors By Rasch Model, Jurnal Teknologi (JT-UTM-3039-7805), 2014
65. Assessment of Photoelectrooxidation for Landfill Leachate Treatment, Brazilian Journal of Chemical Engineering (BJCE-2910-122074-610860-2), 2014
66. Assessment of water quality of coimbatore big tank, India, KSCE Journal of Civil Engineering (KSCE-D-14-00056), 2014
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471. Solid waste, Encyclopedia Science and Technology, Dewan Bahasa dan Pustaka, Malaysia, 1998
472. Solidification/Stabilization Of Landfill Leachate Concentrate Using Different Aggregate Materials, Waste Management (WM-11-1343), 2012
473. Solution behaviour of new pullulan derivatives with biotechnological potential, Environmental Engineering and Management Journal, EEMJ_55_Grigoras_15_R, 2015.
474. Solving the Waste Water puzzle using Downflow Hanging Sponge (DHS) Bio-Tower in combination with UASB, Proceedings, First International Conference on Environmental Challenges in Arid Regions, February 6-8, 2012, King Abdul Aziz University, Jeddah, Saudi Arabia, 2011
475. Sono-activated persulfate oxidation of bisphenol A: kinetics, pathways and the controversial role of temperature, Chemical Engineering Journal, CEJ-D-15-01885, 2015.
476. Sorption Characteristics of Chloroform to Organobentonites: the Prospective Application as a Landfill Liner, Journal of Hazardous Materials (HAZMAT-D-14-03952), 2014.
477. Sorption Of Dye Wastewater By Using Natural Zeolite (Nz), 3 Anionic-Cationic Surfactant-Modified Zeolite (Acsmz) And 4 Cationic Surfactant-Modified Zeolite (CSMZ)(IJGE-2011-0502), International Journal of Green Energy, 2012
478. Spreadsheet Modeling as a Tool for Studying Environmental Problems: Groundwater Level Rise in Jeddah City Case Study, Proceedings, First International Conference on Environmental Challenges in Arid Regions, February 6-8, 2012, King Abdul Aziz University, Jeddah, Saudi Arabia, 2011
479. Studies on enhancing the biodegradation of tannins by advanced oxidation processes, Clean: Soil, Air, Water (clen.201400095), 2014
480. Studies on enhancing the biodegradation of tannins by advanced oxidation processes, Journal of Industrial and Engineering Chemistry (JIEC-D-14-01033), 2014
481. Study of ammonia emission from Kahrizak landfill and composting plant on basis of field measurement, Tehran, Iran, Environmental Progress & Sustainable Energy (EP-13-411), 2013
482. Study of Geosynthetic Clay Liner Layers Effect on Decreasing Soil Pollution in the Bed of Sanitary Land Fills, International Journal of Water Resources and Environmental Engineering (IJWREE/03.06.13/0421), 2013
483. Study of the removal of paraquat from aqueous solution by biosorption onto Ayous (Triplachiton Schleroxylon) sawdust, Journal of Hazardous Materials, 2010
484. Study of water quality in lake towards integrated water resources management, Engineering Journal, 2005
485. Study on oxidative Degradation of Polyacrylamide in Wastewater with UV/Fenton/ C4H4O6 ²⁻ , International Journal of Green Energy (IJGE-2013-0041), 2013, 2013
486. Study on Suitability of Sodium Acetate Method in Determining CEC of Cd-contaminated Soil, Environmental Engineering Science, 2010
487. Study on the effectiveness of bio-physical pilot treatment plant: RBC-sedimentation as a treatment method for leachate, Proceedings of the National Conference on Civil Engineering, AWAM'01, 2001
488. Study On The Fluidized Bed Fenton Process For Treatment Of Organic Compounds From The Municipal Landfill Leachate, Environmental Engineering and Management Journal (EEMJ_830_Xiong_12), 2013, 2013
489. Study on treating old landfill leachate by Ultrasound-Fenton oxidation combined with MAP chemical precipitation, Chemical Speciation & Bioavailability, TCSB-2015-0093, 2015.

490. Suitability of a Quantity-Based Charge Method for the Household Solid Waste Sector in Developing Countries with Special Reference to Sri Lanka: A Review, Journal of Environmental Management (JEMA-D-14-01792), 2014
491. SWAPI Book: Municipal Solid Waste Management In Asia And The Pacific Islands, SWAPI book entitled "Municipal Solid Waste Management in Asia and the Pacific Islands, 2009
492. Synthesis of Polyamine Flocculants and Their Potential Use in Treating Dye Wastewater, Journal of Hazardous Materials, 2007
493. Temporary and long term impacts of persulfate chemical oxidation on cadmium mobility, Journal of Hazardous Materials (HAZMAT-D-13-00205), 2013,
494. The 'Apparent' Real Losses Of A Water Balance, Water Science and Technology: Water Supply, 2011
495. The application of UV-Fenton process in waste gas treatment by using a bubble column reactor, Environmental Science and Pollution Research, ESPR-D-14-04122, 2015.
496. The Behavior of Suspended Solids in Supernatant of Containment Area, KSCE Journal of Civil Engineering (KSCE-D-12-00256), 2012
497. The bioremediation potential of hydrocarbonoclastic bacteria isolated from a mangrove contaminated by petroleum hydrocarbons on the Cilacap coast, Indonesia, Bioremediation Journal, 2011
498. The catalytic performance of Cu/Mg/Al- chitosan for ozonation of a real landfill leachate, Environmental Technology, TENT-TENT-2015-0681, 2015.
499. The catalytic potential of Cu/Mg/Al -chitosan for ozonation of an actual landfill leachate, Waste Management (WM-14-1166), 2014
500. The characteristics and effect of compound clinoptilolite media for the treatment of domestic wastewater in a biological aerated filter (BAF), Recent Patents On Biotechnology (Pr2/BIOT/-MS-BSP-21), 2012
501. The development and prospects of the end-of-life vehicle recycling system in Taiwan, Waste Management, 2009
502. The effect of aeration position on the spatial distribution and reduction of pollutants in the stabilization process of landfills - a pilot scale study, Waste Management Research (WMR-12-0154), 2012
503. The effect of coagulation and applied breakage shear on the re-growth of kaolin flocs, Environmental Engineering Science, 2010
504. The Effect of Initial pH on Treatment of Poultry Slaughterhouse Wastewater by Electrocoagulation Method, Environmental Progress & Sustainable Energy, 2011
505. The effect of packing volume on the efficiency of leachate treatment, Desalination and Water Treatment (TDWT-2014-1307), 2014
506. The effect of packing volume on the efficiency of leachate treatment, Chemistry and Ecology, GCHE-2015-0189, 2015.
507. The Effectiveness of Solid Waste Recycling Practice in Malaysia: Case Study at Taman Sri Serdang, Selangor, PERTANIKA, 2011
508. The Effects Of Gac Adsorption On Dom Structrue And Size Distribution Changes With Time, Desalination and Water Treatment (DWT9914), 2013
509. The entrepreneurial judgement system for aspiring candidates, Journal Of Engineering Research And Technology, Volume 1, Issue 2014
510. The Impact Of Noise Pollution On Productivity; A Case Study Of University Of Uyo, Nigeria, Advancement in Scientific and Engineering Research (ASER (May. 2013)101), 2013
511. The impact of regulatory compliance behavior on hazardous waste generation in European private healthcare facilities, Waste Management (WM-12-1313), 2012
512. The Landfill Reinjection Of Concentrated Leachate: Findings From A Monitoring Study At An Italian Site, Journal of Hazardous Materials, 2010
513. The leaching behaviour and geochemical fractionation of trace elements in hydraulically disposed weathered coal fly ash, Journal of Environmental Management (JEMA-D-12-02008), 2012
514. The management of municipal wastewater sludge in Malaysia, Institution of Engineers Malaysia (IEM) Bulletin, 1999
515. The Medical Waste Practices Å N Turkey, Journal of Hazardous Materials, 2008
516. The operational parameters for micropollutant removal using low pressure reverse osmosis membrane (LPROM), Proceedings, Third National Conference in Civil Engineering (AWAM 2004), Copthorne Orchid, Tanjung Bungah, Penang, Nor Azam Ramli, et.al., 2004
517. The removal of trivalent chromium in complex state of trivalent chromium passivation wastewater, Chemical Engineering Journal (CEJ-D-13-01932), 2013
518. The use of artificial neural network (ANN) for modeling of COD removal from landfill leachate by the ultrasonic process, Waste Management & Research (WMR-13-0803), 2014
519. The use of biotreatment technology to dispose of offshore drilling waste fluids, Journal of Hazardous Materials, 2011
520. The use of catalysts for enhancing of COD and NH ₃ -N removal from landfill leachate by ultrasound method, International Journal of of Idustrial Chemistry (IJIC), 2010
521. Thermal pollution, Encyclopedia Science and Technology, Dewan Bahasa dan Pustaka, Malaysia, 1998
522. This paper deals with Optimization of Calcium Removal by Ion Exchange Resin from Phosphate Acid Solutions Used in the Dissolution of Ulexite, Journal of the Chemical Society of Pakistan,

JCSP-121114-10465, 2015.
523. Toxicity effect and study on the fish <i>Tilapia hitam oreochromis mossambicus</i> on the metals zinc and cadmium, Proceedings of the National Conference on Civil Engineering, AWAM'01, 2001
524. Toxicological evaluation of landfill leachate using plant (<i>Allium cepa</i>) and fish (<i>Leporinus obtusidens</i>) bioassays, Waste Management Research (WMR-13-0193), 2013
525. Treatment of Desizing Wastewater by Catalytic Thermal Treatment (Thermolysis) and Coagulation, Journal of Hazardous Materials, 2008
526. Treatment of Landfill Leachate by Fenton Process: Parametric and Kinetic Studies, Desalination and Water Treatment (TDWT-2012-0217), 2013
527. Treatment of Landfill Leachate by Sonolysis Followed by Fenton Process, Desalination and Water Treatment (TDWT-2013-0333), 2013
528. Treatment of landfill leachate using a combined process of Stripping/coagulation/ SBR and Sand filter process, Journal of Hazardous Materials (HAZMAT-D-12-02700), 2012
529. Treatment of MSW landfill leachate using electrolytic processes in Alternating current, Waste Management (WM-14-1256), 2014.
530. Treatment of palm oil mill effluent (POME) anaerobic pond supernatant using trickling filter, Journal of Institution of Engineers Malaysia (IEM), 2001
531. Treatment of Pulp and Paper Mill Effluent using Heat Treated Coal: An environment friendly perspective, Journal Environmental Management, 2005
532. Ultraviolet Membrane Bioreactor for enhancing the removal of organic matter in micro-polluted water, Chemical Engineering Journal (CEJ-D-13-03497), 2013
533. Uncertainty analysis for Layang reservoir phosphorous loading estimation, Proceedings International Conference on Humid Tropics, Casuarina Parkroyal Hotel, Ipoh, 24-26 November, 1998
534. Understanding the effects of matrices and ozone dose on changes in the characteristics of natural organic matter, Chemical Engineering Journal (CEJ-D-13-00055), 2013
535. Use of control reactors in biological wastewater treatment studies, Proceedings, Third National Conference in Civil Engineering (AWAM 2004), Copthorne Orchid, Tanjung Bungah, Penang, Nor Azam Ramli, et.al., 2004
536. Use of flu gas desulfurizing gypsum for removal of off-flavor compounds in fish ponds water, First International Conference on Science, Engineering & Environment, Tsu City, Mie, Japan, Nov.19-21, 2015, ISBN: 978-4-9905958-5-2 C3051, 2015.
537. Use of foundry material in water pollution control, Water Research, 1999
538. Using orthogonal optimization method for copper ion removal in aqueous media by magnetic nanoparticles immobilized on activated carbon, Water Science and Technology, WST-EM151105, 2015.
539. Using strain <i>Rhodotorula mucilaginosa</i> to produce carotenoids using food wastes, Journal of the Taiwan Institute of Chemical Engineers, JTICE-D-15-00811, 2015.
540. Using Wastewater and High-Rate Algal Ponds for Nutrient Removal and the Production of Energy and Biofuels, Water Science and Technology (WST-EM12383), 2012
541. Utilization of natural materials as landfill liners and their effects of insitu leachate treatment in landfill, Scientific Research and Essays (SRE-11-1835), 2012
542. Utilization of Natural Zeolite and Perlite as Landfill Liners for in situ Leachate Treatment in Landfill, Int. J. Environ. Res. Public Health (16762), 2012
543. Variation in organic matter and organic nitrogen in landfill leachates with landfilling age, Waste Management (WM-13-359), 2013
544. Vermicomposting of corn residues through microbial biodegradation for enriching nitrogen and phosphorus with microbial inoculants, Journal of Advanced Research (JARE-D-13-00299), 2013
545. Waste Biomass-To-Energy Supply Chain Management: A Critical Synthesis, Waste Management, 2010
546. Waste Quantification Models for Estimation of Construction and Demolition Waste Generation: A Review, International Journal of Environmental Engineering, 2011
547. Wastewater treatment using bentonite and its combinations as sorbent and coagulant, Applied Clay Science (CLAY4710), 2013,
548. Water Distribution Network Robustness And Fragmentation Using Graph Metrics (AfricaWRM 2012 (762-037)
549. Water Distribution Network Robustness And Fragmentation Using Graph Metrics, AfricaWRM 2012 (762-037), 2012
550. Water Hyacinth (<i>Eichhornia crassipes</i>) as a remediation tool for Dye-Effluent Pollution, African Journal of Environmental Science and Technology, 2011
551. Water Resources Management and Its Role in Sustainable Development (Case study: Jajarm City - Iran), IASTED 2010
552. Water Supply Engineering, School of Distance Learning Module, USM, 1998
553. Water Supply Engineering', Module 1: School of Distance Learning, University of Science Malaysia, 205 pages, 1998
554. Water Treatment by Electro-Fenton Process, Current Organic Chemistry, 2012
555. Water Use Patterns In Rural Guinean Savanna Of Africa: A Study Of Six Villages In Southeastern Nigeria (AfricaWRM 2012 (762-019)

556. Water Use Patterns In Rural Guinean Savanna Of Africa: A Study Of Six Villages In Southeastern Nigeria, AfricaWRM 2012 (762-019), 2012
e) Member of Academic Body / Scientific Forum Panel
1. Advisory Board Committee For The International Conference on Civil and Environmental Engineering for Sustainability (IGonCEES 2015), UTHM, 1-2 December 2015.
2. Arab Healthy Water Association (AHWA), member of abroad advisor, 2006 to date. The Arab Healthy Water Association is a non-governmental, non-profit body, legally registered at the Ministry of Social Affairs (MOSA) by decree No. 6086/2005, Cairo-Egypt.
3. Expert Panel for Evaluation of Terms Of Reference, Tor On The Proposed Expansion Of 130.55 Acres Sanitary Landfill At Mukim Jeram, District Of Kuala Selangor, Selangor Darul Ehsan” By Unit Perancang Ekonomi Negeri Selangor, January 2015.
4. Fellow, International Congress of Chemistry & Environment (FICCE), March 2003 to date
5. Graduate Member, Board of Engineer Malaysia, 1992 to date
6. Graduate Member, The Institution of Engineers, Malaysia, 1997 to date
7. International Committee Member, International Conference on Recent Trends in Science, Engineering and Technology (ICRTSET – 2015), 8 th February, Chennai, India.
8. Member in the Dialogue Session with Minister of Housing and Local Government on the Development of National Solid Waste Management Policy, 23 June 2006
9. Member of the External panel for selection of the best researcher 2013, Universiti Malaysia Sabah, 2013
10. Member of the International Advisory Committee, Center of Excellence in Environmental Science (CEES), King Abdul Aziz University, Jeddah Saudi Arabia, 2011 to date
11. Member of the Review Committee, FRGS, PRGS and TRGS grants, Ministry of Higher Education Malaysia, April 2015
12. Member of the Review Committee, Science Fund grant, Ministry of Science, Technology and Innovation, Malaysia, December 2015.
13. Panel member of the progress PRGS grants, Ministry of Higher Education Malaysia, November 2015.
14. Member of the Scientific Committee, 1st. International Congress-Civil Engineering and durable development, Faculty of Science and Technology, University of Tebessa, Algeria, 17-19 October 2011
15. Member of the Working Group on Site Remediation (WG/Z/10-2), SIRIM, 2007 to date
16. Member, Environmental Research Association of Malaysia (ENSEARCH), 1994 to date
17. Member, International Association of Water Quality (IAWQ), 1992 to 2000
18. Member, International Society for Development and Sustainability (ISDS), Membership ID: M141651, Japan, 2014 to date.
19. Organising Committee Member, 1 st Postgraduate Conference 2015 on Protection of Drinking Water for Society: Source Abstraction and Treatment, 10-11 February, BATC, UTM, KL
20. Organizing Committee Member, World Congress and Exhibition on Construction and Steel Structure (Steel Structure-2015), November 16-18, 2015 at Dubai, UAE.
21. Registered Member of the Environmental Professional Register of Malaysia (EPRM), Membership No. 014, Registered on 21/11/96
22. Technical Committee Member of Solid Waste Management Committee, Ministry of Housing and Local Government (Appointment by the Minister), May 2006 to date
23. Technical Evaluation Committee, Pre-qualification questionnaire (PQQ), Proposal for Waste to Energy Project at Solid Waste Transfer Station, Kepong under Public Private Partnership Unit, Prime Minister's Department, Malaysia, 08 May 2014 to date
24. Technical reference, Resource Recycling Management Department, Pacific Consultants Co., Ltd., Japan, 2012
f) Editorial
i) Editor-in-chief
1. International Journal of Scientific Research in Environmental Sciences (IJSRES)1/01/2013 to date
2. Editor-in-chief, Caspian Journal of Applied Sciences Research (CJASR), 1/1/2011-31 April 2014
3. Editor, Modern Civil Engineering in Trend of the Sustainable Infrastructure Development, ISBN-13: 978-3-03835-619-6, Periodical: Applied Mechanics and Materials Vol. 802, 2015, 722 pages, Trans Tech Publications, Switzerland
4.
ii) Managing Editor/Editor
1. Managing Editor, International Journal of Environment and Environmental Engineering(IJEE), Inderscience Publisher, 2012 to date, 1/1/2012 to date.
2. Managing Editor, International Journal of Environment and Waste Management (IJEWM), Inderscience Publisher, 2012 to date, 1/1/2012 to date.
3. Associate Editor-Book, Handbook of Environment and Waste Management, published by World Scientific Publishing Co., 1/1/2009- 1/12/2009.
4. Guest Editor, IJEWM Part 1, Special Issue: Microbial Immobilization Technology for Wastewater Treatment, In World Review of Science, Technology and Sustainable Development, 1/1/2009-

1/12/2009.
5. Guest Editor, Special Issue on Landfill leachate, International Journal of Environment and Waste Management (IJEWM), Inderscience Publisher, 1/1/2006- 1/12/2007.
6. Advisory Editorial Board Member, Book:Sustainable Water Developments Resources, Management, Treatment, Efficiency and Reuse, CRC Press, Taylor & Francis Group. In Press.
iii) Member of the Editorial Board/ Editorial Advisory Board
1. Advances in Environmental Research, An International Journal (AER), Techno Press, 2012 to date
2. Advances in Water Resource and Protection, 1/11/2013- 31/12/2016
3. Environmental Engineering and Management Journal (EEMJ), 2011 to date.
4. Global Journal of Environmental Science and & Technology, 2009 to date.
5. International Journal of Civil Engineering & Geo-environmental, 1/7/2012 to date.
6. International Journal of Environment and Engineering Science (IJEES), Serial Publications, 1/1/2008 to date
7. International Journal of Innovative Works in Engineering and Technology (IJWET)
8. International Journal of Management, Modern Sciences and Technologies (IJMMST)(www.ijmmst.org), 2012 to date
9. International Journal of Management, Modern Sciences and Technologies (IJMMST), 2014 to date
10. International Journal of Research and Reviews in Applied Sciences, 2009 to date.
11. Iranica Journal of Energy and Environment (IJEE), 2009 to date.
12. Jacobs Journal of Civil Engineering, 2005 to date.
13. Journal of Applied Researches for Water and Wastewater (JARWW), 14/1/2012 to date.
14. Journal of Bioremediation & Biodegradation, 2009 to date.
15. Journal Of Environmental Science and Health, Part A-Toxic/Hazardous Substance & Environmental Engineering, 1/1/2009- 1/12/2011.
16. Jurnal Teknologi-Special Edition (Protection of Drinking Water for Source Abstraction and Treatment), 2015
17. The Scientific World Journal: Environmental Chemistry, Hindawi, 1/11/2013 to date
18. Turkish Journal Of Engineering & Environmental Sciences, 1/11/2013 to date
g) Keynote Speaker (Conference /Seminar/Symposium and other similar academic / professional forums)
1) Aziz, H.A. Challenges in waste management practices in developing countries, Keynote paper, ICSTIE 2014, IPharME 2014, ICAPE 2014, ICCESR 2014, 17-18 September 2014, Park Royal Penang Resort, Penang, Malaysia
2) Aziz, H.A. Municipal solid waste and landfilling challenges in developing countries, International Conference on Waste Management and Environment 2013 (ICMWE 2013), Institute of Biological Sciences, University of Malaya, 26-27 August 2013
3) Aziz, H.A. Solid waste disposal and landfilling challenges in developing countries, 2013 International Conference on Industrial Engineering and Management Science (ICIEMS 2013), International Research Association of Information and Computer Sciences, China, Shanghai, 28-29 September 2013
4) Aziz, H.A. Study On The Restoration Of Muassim/Mina Landfill, Makkah, Keynote paper at the International Postgraduate Conference on Marine, Chemical and Biological Sciences, 13-14 January 2015 , Langkawi, Malaysia.
5) Aziz, H.A. Waste management and control technology, Plenary Paper, 3rd International Conference on Environmental Research and Technology (ICERT 2012), School of Industrial Technology, Universiti Sains Malaysia, 2012, International
6) Aziz, H.A., Aziz, S.Q. Cleaner Production Approaches for Sustainable Development, Proceedings, The International Engineering For Sustainability Conference (INESCO), 14-15 October, 2011, Engineering Campus, USM, Penang, Plenary paper,, The International Engineering For Sustainability Conference (INESCO), 14-15 October, 2011, Engineering Campus, USM, Penang, Plenary paper, 26-37, Universiti Sains Malaysia, 2011
7) Aziz, H.A., Semi-Aerobic Sanitary Landfill: Penang Experience The 1st International Conference on Environmental Crises and its Solutions, Science and Research Branch Islamic, Azad University, Iran Kish Island, Iran, 13-14 February 2013
8) Aziz, H.A., Waste Management And Control Technology, Plenary Presentation at the 3rd International Conference on Environmental Research and Technology 2012 (ICERT 2012), 30 May-1 June 2012, Park Royal, Penang, Malaysia
9) Aziz, H.A., Municipal Solid Waste Management Challenges In Malaysia, Key paper at the Waste Management Asia, 2016, 27-28 January, 2016, Kuala Lumpur, Fleming Gulf.
h) Awards for Innovation
1. Adlan, M.N., Aziz, H.A., Murshed, M.F., Dissolved air floatation pilot plant, Ministry of Science, Technology & Innovation Expo (MOSTI), 2005 (Bronze) (Team member)
2. Adlan, M.N., Aziz, H.A., Tan, E. Roughing filter for water supply to orang asli settlement, Ministry of

	Science, Technology and Environment, Technology & Environment Expo (MOSTE), 2004, Bronze (Team member)
3.	Adlan, M.N., Elvin Tan, Aziz, H.A. Diffused air floatation nozzle, MINDS, International Invention, Innovation, Industrial Design and Technology Exhibition (ITEX), 2005, Gold Medal and Special Award Best Industrial Design (Team member)
4.	Adlan, M.N., Tan, E., Aziz, H.A. Diffused air floatation nozzle, GENEVE, Salon International Des Inventions, Geneva, 2006, (Bronze) (Team member)
5.	Aziz, H.A. Halim, A.A., Johari, M.A.M., Ariffin, K.S., Dr. Adlan, M.N. Novel leachate treatment system, PECIPTA, 2007, (Silver) (Head).
6.	Aziz, H.A. , Top Research Scientists Malaysia, TRSM 2012, Top Research Scientists Malaysia, TRSM 2012, Academy of Sciences Malaysia, 2012 (Head).
7.	Aziz, H.A. , Halim, A.A., Johari, M.A.M., Ariffin, K.S., Adlan, M.N., Yusoff, M.S. Novel Adsorbent for Landfill Leachate Treatment, Malaysian Technology Expo 2008, (MTE 2008), Putra World Trade Centre, Kuala Lumpur, 21-23 February 2008 (Gold) (Head).
8.	Aziz, H.A. , Yusoff, M.S., A.A. Halim, Johari, M.A.M., K.S. Ariffin. Novel adsorbent for landfill leachate treatment. Salon International Des Inventions, GENEVAUnimap3-Apr-09 (Silver) (Head).
9.	Aziz, H.A. , Yusoff, M.S., Adlan, M.N., Asaari, F.A.H. Removal of Ammonia in Leachate from Landfill, Ministry of Science, Technology & Environment, Technology & Environment Expo (MOSTE), 2004 (Silver) (Head).
10.	Aziz, H.A. , Yusoff, M.S., Adlan, M.N., Asaari, F.A.H. Leachate treatment plant, Malaysian Invention and Design Society (MINDS), 14th International Invention, Innovation, Industrial Design and Technology Exhibition (ITEX), 2004 (Silver) (Head).
11.	Yusoff, M.S., Aziz, H.A. , Bashir, M.J.K. IonEx: Novel process for leachate treatment, Malaysian Association of Research Scientists (MARS), Malaysia Technology Expo 2011, 17-19 February 2011, Kuala Lumpur, 2011, National (Silver) (Team member)
12.	Yusoff, M.S., Aziz, H.A. Novel landfill leachate treatment by Indion resin, International Exposition of Research and Invention Institution of Higher Learning (PECIPTA 2009), KLCC, Kuala Lumpur, 8-10 Oct 2009 (Silver) (Team member)
i) Leadership in Professional /Academic Associations	
1.	Chairman of the Conference Running Committee, Member of the Editorial Board and Member of the Technical Committee of the 'International Conference on Hydrology and Water Resources of Humid Tropics', Ipoh. 24-26 November 1998.
2.	Chairman of the Publication Committee, 'Fourth National Conference in Civil Engineering (AWAM 2007)', May 2007, Langkawi.
3.	Chairman of the Technical Committee 'International Conference on Land Reclamation and Rehabilitation, LARREN 97', 25-27 August 1997
4.	Chairman of the Working Committee, 'Third National Conference in Civil Engineering (AWAM 2004)', 20-22 July 2004, Copthorne Orchid Hotel, Tanjung Bungah
5.	Committee Member, Environment Malaysia Conference (ENVIROMAL'99), Mines Conference Centre, Kuala Lumpur, 13-14 July 1999
6.	Conference Secretary 'Third National Conference in Civil Engineering (AWAM 2004)', 20-22 July 2004, Copthorne Orchid Hotel, Tanjung Bungah
7.	Coordinator 'Seminar on Developments in Wastewater Treatment Systems', USM Perak Branch, 19 March 1994
8.	Coordinator 'Short Course on Practicality of Landfill Design', USM Perak Branch, 4-7 September 1995
9.	Coordinator, 'Seminar on Solid Waste Management', USM Perak Branch, 30 September 1993
10.	Detailed EIA, EMP and Erosion and Sediment Control Plan review expert panel, appointed by MOSTI for the Development of forest plantation in Gunung Inas forest reserved Mukim Bakai Kupang and Pulau District of Baling, Kedah Darul Aman, by Perbadanan M., 2013, -, , National
11.	Energy & Environment, Chair, The National Science Fellowship Conference, MOSTI, 2004
12.	International Advisory Committee Member for ACEM14, Busan, Korea, 24-29 August 2014, 2013, -, , International
13.	International Committee Advisory Member, International Conference on Engineering, Environment, Economics, Safety and Health 2009 (CONVEEESH' 09) In Collaboration with Sustainable Architecture and Environment (SENVAR 10th, 2009), Manado, North Sulawesi, Indonesia, October 26-27, 2009.
14.	Joint Coordinator 'Short Course on Investigations on Soil and Water Contamination', USM Perak Branch, 10-12 May, 1994
15.	Member of the External panel for selection of the best researcher 2013, Universiti Malaysia Sabah, 2013, -, , National
16.	Member of the International Program Committee (IPC) for the IASTED International Conference on Water Resources Management, WRM 2007, Honolulu, USA from August 20 - 22, 2007, August 20 - 22, 2007.
17.	Member of the International Program Committee (IPC) for the IASTED International Conference on Water Resources Management, WRM 2008, IASTED Africa WRM 2008.

18. Member of the International Program Committee (IPC) for the IASTED International Conference on Water Resources Management, WRM 2009, IASTED Africa WRM 2008, Sept 8-10, Botswana.
19. Member of the International Program Committee (IPC) for the IASTED International Conference on Water Resources Management, WRM 2009, IASTED Africa WRM 2010, September 6-9, Botswana
20. Member of the International Program Committee (IPC) for the IASTED International Conference on Water Resources Management, WRM 2009, IASTED Africa WRM 2012, September 3-5, Botswana
21. Member of the Panel of Promotion Exercise for Professor VK7, Faculty of Engineering and Built Environment, Universiti Kebangsaan Malaysia, 17 December 2013, , 2013, -, , National
22. Member of the Scientific Committee, 1st. International Congress-Civil Engineering and durable development, Faculty of Science and Technology, University of Tebessa, Algeria, 17-19 October 2011, , 2011, -, , International
23. Municipality Development. Chair, The National Seminar, 1999
24. Organising Committee Member for the 'joint IEM/ICE conference on Solid and Hazardous Waste Management', Kuala Lumpur, 19-21 September 1994
25. Organising Committee Member, 'Enviro Malaysia '99 Conference', organised by Environmental Research Association of Malaysia, ENSEARCH, 13-14 July 1999.
26. Organising Committee Member, 'Pollution in the Metropolitan Environment Conference, World Conference, POLMET 2000', organised by Environmental Research Association of Malaysia, ENSEARCH, 19-23 March, 2000
27. Organising Committee Member, 'The 5 th . Asian Symposium on Academic Activities For Waste Management (AAAWM), Kuala Lumpur, 9-12 September, 2002., organised by AAAWM and others, 19-23 March, 2000
28. Organising Secretary 'International Conference on Land Reclamation and Rehabilitation, LARREN 97', 25-27 August 1997
29. Scientific Committee Member, The International Conference on Engineering and Built Environment (ICEBE) 2013, UKM, , 2013, -, , International
30. Session Chairman (Energy & Environment) of the Annual Seminar of National Science Fellowship 2004, Ministry of Science, Technology & Innovation Malaysia, Vistana, Penang, 20-21 Disember 2004
31. Session Chairman during the 'International Conference on Land Reclamation and Rehabilitation, LARREN 97', 25-27 August 1997
32. Technical 4 Session Chairman, 'Third National Conference in Civil Engineering (AWAM 2004)', 20-22 July 2004, Copthorne Orchid Hotel, Tanjung Bungah
33. The 5th IASTED African Conference on Environment and Water Resource Management AfricaEWRM 2014-September 1 – 3, 2014, Gaborone, Botswana
34. Member, GEOMATE 2015 Technical Program Committee (TPC), Osaka, 16-18 November 2015.
j) Continuous education
1. Aziz, H.A. (1994) 'Leachate', lecture delivered at the Short Course on Investigations on Soil and Water Contamination', Universiti Sains Malaysia (Perak Branch), 10-12 May.
2. Aziz, H.A. (1995) 'Site selection and design', paper presented at the Short Course on Practicality of Landfill Design, Universiti Sains Malaysia (Perak Branch), 4-7 September
3. Aziz, H.A. (1997), 'Biological Treatment of Industrial Wastewater', paper presented at the Short Course on 'Industrial Wastewater Management', School of Chemical Engineering, USM Perak, 16-17 Disember.
4. Aziz, H.A. (1997), 'Environmental Legislation in Civil Engineering', paper presented at the Seminar on Construction Site Safety organised by Ungku Omar Politechnic, Ipoh, (In Malay), Jublee Intan Hall, 5 April.
5. Aziz, H.A. (1997), 'Environmental Specification in Civil Engineering', paper presented at the Short Course on 'Understanding Civil Engineering Specifications', School of Civil Engineering, Universiti Sains Malaysia (Perak Branch), (In Malay), 3-5 February.
6. Aziz, H.A. (1997), 'Personal Protective Equipment (For Safety)', paper presented at the Short Course on Construction Site Safety, The Technological Association of Malaysia, 12-13 July, USM Perak Branch.
7. Aziz, H.A. (1997), 'Safe machine Operation', paper presented at the Short Course on Construction Site Safety, The Technological Association of Malaysia, 12-13 July, USM Perak Branch.
8. Aziz, H.A. (1997), 'Sludge Handling and Disposal, paper presented at the Short Course on 'Industrial Wastewater Management', School of Chemical Engineering, USM Perak, 16-17 Disember.
9. Aziz, H.A. (2001), 'Sludge Management and Disposal', Short Course for TORAY Plastics, P.Pinang, 27-28 Disember 2001.
10. Aziz, H.A. (2005), 'Biological proses-aerobic', Short Course on Wastewater Treatment, 13-15 September, School of Civil Engineering, Engineering Campus, University of Science Malaysia, Penang.
11. Aziz, H.A. (2005), 'Sludge handling and disposal', Short Course on Wastewater Treatment, 13-15 September, School of Civil Engineering, Engineering Campus, University of Science Malaysia, Penang.
12. Aziz, H.A. (2006), 'Biological proses-aerobic', Short Course on Wastewater Treatment, July, School of Civil Engineering, Engineering Campus, University of Science Malaysia, Penang.
13. Aziz, H.A. (2006), 'Sludge handling and disposal', Short Course on Wastewater Treatment, July, School of Civil Engineering, Engineering Campus, University of Science Malaysia, Penang.
14. Wallace, K.B. and Hamidi A Aziz (1994) 'Regulations of contaminated sites: Malaysia and overseas'.lecture

delivered at the Short Course on Investigations on Soil and Water Contamination', Universiti Sains Malaysia (Perak Branch), 10-12 May.
4.0 CONSULTANCY
a) Consultancy With Monetary Rewards to University / School / Individual
1. Design and Consultancy Work for an alternative water supply for Orang Asli settlement at Sg. Jang Kuala Kubu Baharu Selangor, Jabatan Kesihatan Selangor, RM4,500.00, 1/4/2002- 1/4/2002
2. Determination of water quality for a road project between Gunung Bongsu through Kg. Batu ke Kg. Lobak, Puncak Utara Sdn. Bhd, RM26,000.00, 1/1/2009- 1/1/2010
3. Development of civil engineering laboratory at University of Technology Petronas, University of Technology Petronas, RM132,000.00, 1/1/1999- 1/3/1999
4. Development of civil engineering laboratory facilities and University of Technology Petronas, Package 1 (Testing and Commissioning), Universiti Teknologi Petronas, RM300,000.00, 1/1/2000- 1/1/2001
5. Development of environmental engineering syllabus for UNIMAP, to Ministry of Education, RM2,000.00.
6. Development of environmental engineering syllabus, UNIMAP., RM15,400.00.
7. Development of Post-EIA-Environmental Management Plan (EMP) for Universiti Teknologi Petronas Seri Iskandar, Universiti Teknologi Petronas, RM300,000.00, 1/8/1999- 1/7/2001
8. EIA Report for USM Perak Branch Campus, Transkerian, Seberang Perai Selatan, Penang, USM/Ikatan Cipta Bina Sdn. Bhd, RM55,000.00, 1/12/1997- 1/3/1998
9. Industrial testing, ,Rubberthread Industries (M) Sdn. Bhd, RM1,300.00, 7/11/1996- 7/11/1996
10. Industrial testing, AE Abdullah Enterprise, RM250.00, 29/9/1994- 29/9/1994
11. Industrial testing, Anjung Emas Sdn. Bhd, RM1,000.00, 22/4/1994- 22/4/1994
12. Industrial testing, Concrete Mix Sdn. Bhd., RM575.00.
13. Industrial testing, Contractor, RM2,000.00.
14. Industrial testing, Forest Research Institute of Malaysia, RM4,000.00.
15. Industrial testing, IPCO Contractor Sdn. Bhd, RM22,500.00, 1/3/1994- 29/6/1995
16. Industrial testing, Mineral Water Co. Sdn. Bhd, RM500.00, 22/8/1994- 22/8/1994
17. Industrial testing, Murata Electronics (M) Sdn. Bhd, RM950.00, 18/10/1996- 18/10/1996
18. Industrial testing, Pembinaan Awam Manjung, RM240.00.
19. Industrial testing, Permata Services Sdn. Bhd, RM755.00.
20. Industrial testing, Politeknik Ungku Omar, RM1,000.00, 13/4/1994- 13/4/1994
21. Industrial testing, Readymixed Concrete Malaysia, RM1,000.00, 18/4/1996- 18/4/1996
22. Industrial testing, SES Consultant Sdn. Bhd, RM1,000.00, 21/9/1993- 21/9/1993
23. Investigation for greenhouse gas reduction project using semi-aerobic landfill system in Malaysia: phase 2, Tokyu Construction Co. Ltd., Japan, Tokyo, RM10,000.00.
24. Leachate treatment consultancy work at Langkawi Island Phase II, Khairi Consult Sdn. Bhd., RM40,000.00.
25. Leachate treatment consultancy work at Langkawi Island, Khairi Consult Sdn. Bhd., RM10,000.00.
26. Leachate treatment consultancy work at Pulau Burong Landfill Site, Penang, Idaman Bersih Sdn. Bhd., RM30,445.00, 1/3/2001- 1/11/2001
27. Market survey study for the proposed R&D Laboratory (be equipped with Environmental Engineering Laboratory) of the TNB Berhad, TNB Berhad., RM200,000.00, 1/1/1994- 1/7/1994
28. Post EIA monitoring of marine water quality at Kuala Kedah Marina Project, for BF Indra Sdn. Bhd., RM6,900.00, 1/3/2002- 1/3/2002
29. Preliminary investigation for greenhouse gas reduction project using semi-aerobic landfill system in Malaysia, Tokyu Construction Co. Ltd., Japan, Tokyo, RM24,000.00.
30. Preparation of a technical proposal for The Feasibility Study Of Sewage Effluent Reuse for Jelutong Sewage Treatment Plant, CS Engineering Consultancy, RM1,700.00, 1/12/2009- 1/12/2009
31. Proposal of recycling of waste, Introvision Sdn. Bhd, RM4,000.00.
32. Proposal to protect Kilim mangrove from leachate pollution, Langkawi Municipal, Kedah, RM47,500.00, 1/10/2007- 31/3/2010
33. Raw sewage characterisation, Indah Water Konsortium, RM2,600.00.
34. Sludge analysis and consultancy, Malacca State Government, RM3,000.00.
35. Study on the domestic water use in the state of Perak for Perak Water Board, Perak Water Board, RM19,435.00, 1/3/1999- 1/7/1999
36. Study on the quality of oxidation pond discharge from USM campus, HLA Associates Sdn. Bhd., RM950.00, 1/6/2002- 1/6/2002
37. Study to predict the lifespan of water extracted and discharged to the ex-mining pond for marble processing industry in Simpang Pulai Ipoh, Perak SEDC, RM6,000.00, 1/8/1994- 1/11/1994
38. The Feasibility Study of Sewage Effluent Reuse for Jelutong Sewage Treatment Plant (JSTP) and Bayan Baru Sewage Treatment Plant (BBSTP), 22 March-21 July 2010), CS Engineering Consultancy, 11A, Tkt 1, Lrg Perda Utama 6, 14000 Bukit Mertajam, Pulau Pinang, RM85,000
39. The Feasibility Study of Sewage Effluent Reuse for Jelutong STP and Bayan Baru STP , CS ENGINEERING CONSULTANCY , RM1,700.00, 1/4/2010-15/4/2010

40. Training on wastewater treatment, Toray Plastics Penang, RM6,000.00, 1/11/2001- 1/11/2001
41. Treatability study and consultancy report for the design of the proposed treatment works for the new slaughterhouse wastewaters in Central Market, Ipoh, Majlis Bandaraya Ipoh, RM7,850.00, 1/1/1993- 1/8/1993
42. Upgrading of sanitary landfill for Pulau Langkawi for MPL-Phase 2, MPL, RM50,000.00.
43. Water quality monitoring for the proposed Fire Brigade Acedemy, Seri Iskandar, Perak. Client: Mastac Engineering Sdn. Bhd., RM50,000, June 2012- January 2014 (Team member)
44. Water supply for orang asli settlement in Sg. Jang, Kuala Kubu Baharu Phase II, Selangor Health Department, RM10,000.00.
45. Water supply for under priviledge community, Division of Community & Industrial Network, USM, RM38,465.00, Assoc. Prof. Ir. Dr. Mohd. Nordin Adaln (Team member)
46. Water supply for under priviledge community, Division of Community & Industrial Network, USM, RM18,465.00, Assoc. Prof. Ir. Dr. Mohd. Nordin Adaln.
b) Consultation Without Monetary Rewards
1. Committee Member for the accreditation of certificate for sewage treatment plant operators, Sewage Services Department, Ministry of Housing & Local Government, RM0.00, 1/1/1995- 1/12/2011
2. Committee Member for upgrading works of Bercham landfill site, MBI, RM0.00, 1/1/2000- 1/12/2001
3. Consultation works prior to the signing of the Memorandum of Understanding between USM, Majlis Perbandaran Seberang Perai and Idaman Bersih Sdn. Bhd For research collaboration,, RM0.00, 27/6/2002- 27/6/2002
4. Member of the expert panel for designing leachate treatment facilities at Pulau Burung Landfill Site, Penang, Pulau Burung Landfill Site, Penang, RM0.00, 1/1/2001- 1/12/2002
5. Technical advice to Seberang Perai Municipal to use limestone filter for treating leachate at Ampang Jajar site, RM0.00.
5.0 SERVICE TO THE UNIVERSITY AND COMMUNITY
a) Administration
1. Academic Editors, School Of Civil Engineering (Perak Branch Campus), 1/11/1993- 31/3/1994
2. Academic Editors, School Of Civil Engineering (Perak Branch Campus), 1/4/1994- 31/12/1994
3. Programme Chairman, School Of Civil Engineering (Perak Branch Campus), 1/1/1995- 12/31/1996
4. Programme Chairman, School Of Civil Engineering (Perak Branch Campus), 1/1/1997- 4/15/1998
5. Programme Chairman, School Of Civil Engineering (Perak Branch Campus), 27/7/1998- 29/8/1998
6. Deputy Dean, School Of Civil Engineering, 26/3/2003- 25/3/2005
7. Deputy Dean, School Of Civil Engineering, 26/3/2007- 30/6/2008
8. Dean, School Of Civil Engineering, 1/7/2008- 14/3/2009
9. Dean, School Of Civil Engineering, 15/3/2009- 31/12/2009
10. Dean, School Of Civil Engineering, 1/1/2010- 12/31/2012
b) Service to the Community
1. An overview of landfill leachate and leachate treatment, Invited paper, International workshop, Faculty of Civil Engineering, Fukuoka University, 2013, International
2. Aziz, H.A. (2006), 'Solid waste management in Penang', interviewed by TV3 and aired on Buletin 1.30 pm, 19 April 2006, 19 April 2006.
3. Aziz, H.A. (2006), 'View on incinerator in Malaysia', interviewed by TV3 and aired on Buletin Utama 8.30 pm, 20 May 2006, 20 May 2006.
4. Aziz, H.A. (2006), 'View on incinerator in Malaysia', interviewed by TV3 and aired on Buletin 7.00 am, 21 May 2006, 21 May 2006.
5. Aziz, H.A. (2011), 'ZELIAC', interviewed by TV2 Panorama programme on 2 June 2011.
6. Chairman of the working group for the Open Day,, SK Jawi, Seberang Perai Selatan, 26 October 2002.
7. Committe member ,Surau, Taman Jawi Jaya,1/1/2004- 31/12/2011,
8. Committe member for Science and Environment week at the Radio 3 Ipoh, RTM, 1998.
9. Committe member, Surau, Taman Jawi Jaya, 2004 to date.
10. Committee member ,Parents-Teacher Association, SK Jawi, Seberang Perai Selatan,1/1/2002- 31/12/2003,
11. Committee Member for upgrading works of Bercham landfill site, MBI, RM0.00, 1/1/2000- 1/12/2001
12. Committee member of the Parents'-Teacher Association, SK Jawi, Seberang Perai Selatan, 2002.
13. Committee member of the Parents'-Teacher Association, SK Jawi, Seberang Perai Selatan, 2003.
14. How to produce a quality publication, Invited paper, IPASA Workshop, Faculty of Civil Engineering, Universiti of Teknology Malaysia, 2013, National
15. Interviewed by TV3 ,Solid waste management in Penang,19/4/2006- 19/4/2006.
16. Interviewed by TV3 ,Solid waste management in Penang,19/4/2006- 19/4/2006,
17. Interviewed by TV3 ,View on incinerator in Malaysia,20/5/2006- 21/5/2006.
18. Interviewed by TV3 ,View on incinerator in Malaysia,20/5/2006- 21/5/2006,

19. Invited paper ,Integrated solid waste management in developing countries: towards achieving a sustainable devlp.,21/4/2008- 23/4/2008.
20. Invited paper ,Integrated solid waste management in developing countries: towards achieving a sustainable devlp.,21/4/2008- 23/4/2008,
21. Invited paper entitled 'Integrated solid waste management in developing countries: towards achieving a sustainable development, Jeddah Environmental Forum, Jeddah, JCCI, , 2008, International
22. Invited speaker ,Technical talk live on air at Radio Malaysia Perak: EIA and EMP,23/7/2007- 23/7/2007.
23. Invited speaker ,Technical talk live on air at Radio Malaysia Perak: Pollution and solid waste problem,11/3/1994- 11/3/1994,
24. Invited speaker ,Technical talk live on air at Radio Malaysia Perak: Water pollution,17/4/1994- 17/4/1994,
25. Invited speaker ,Technical talk live on air at Radio Malaysia Perak: What is Science & Technology (Quiz),23/8/1994- 23/8/1994,
26. Invited speaker ,Technical talk live on air at Radio Malaysia Perak: Sewage,5/7/1995- 5/7/1995,
27. Invited speaker ,Technical talk live on air at Radio Malaysia Perak: Water and Pollution problem (Sci. & Tech. quiz),5/9/1996- 5/9/1996,
28. Invited speaker ,Technical talk live on air at Radio Malaysia Perak: Environmental Management System (EMS/ISO14000),26/7/1998- 26/7/1998,
29. Invited speaker ,Technical talk live on air at Radio Malaysia Perak: EIA and EMP,23/7/2007- 23/7/2007,
30. Invited speaker ,Technical talk live on air at Radio Malaysia Perak: Pollution and solid waste problem,11/3/1994- 11/3/1994,
31. Invited speaker ,Technical talk live on air at Radio Malaysia Perak: Water pollution,17/4/1994- 17/4/1994,
32. Invited speaker ,Technical talk live on air at Radio Malaysia Perak: What is Science & Technology (Quiz),23/8/1994- 23/8/1994,
33. Invited speaker ,Technical talk live on air at Radio Malaysia Perak: Sewage,5/7/1995- 5/7/1995,
34. Invited speaker ,Technical talk live on air at Radio Malaysia Perak: Water and Pollution problem (Sci. & Tech. quiz),5/9/1996- 5/9/1996,
35. Invited speaker ,Technical talk live on air at Radio Malaysia Perak: Environmental Management System (EMS/ISO14000),26/7/1998- 26/7/1998,
36. Invited speaker ,Technical talk live on air at Radio Malaysia Perak: EIA and EMP,23/7/2007- 23/7/2007,
37. Invited speaker to the technical talk live on air at Radio Malaysia Perak: Pollution and solid waste problem, 11/3/94 (8.00-9.00 am).
38. Invited speaker to the technical talk live on air at Radio Malaysia Perak: Water pollution, 17/4/94 (800-9.00 am).
39. Invited speaker to the technical talk live on air at Radio Malaysia Perak: What is Science & Technology (Science & Technology Quiz), 23/8/94 (5.10-6.00 pm).
40. Invited speaker to the technical talk live on air at Radio Malaysia Perak: Sewage, 5/7/95 (5.10-6.00 pm).
41. Invited speaker to the technical talk live on air at Radio Malaysia Perak: Water and Pollution problem (Science & Technology Quiz), 5/9/96 (5.10-6.00 pm).
42. Invited speaker to the technical talk live on air at Radio Malaysia Perak: Environmental Management System (EMS/ISO14000), 26/7/98 (9.30-10.00 pm).
43. Invited speaker to the technical talk live on air at Radio Malaysia Perak: EIA and EMP, 23/7/00 (1500-1530 pm).
44. Invited to become a Member of the Technical Advisory Team, Solid Waste Management, Kedah State, 14 January, 2010
45. Landfill leachate and treatment, Invited paper, 2nd ISWA Summer School 2013, Institute of Biological Sciences, University of Malaya, 2013, International
46. Panelist ,Panelist in Talk Show Programme 'GLOBAL TV2, Radio & Television Malaysia,24/8/1997- 24/8/1997,
47. Panelist in Talk Show Programme 'GLOBAL TV2', Radio & Television Malaysia discussing environmental aspects within the topic on Land Reclamation and Rehabilitation, 24/8/97, 8.30-9.30 pm.
48. Paper entitled 'Green Technology' Green Technology Programme, PUO, , Politeknik Ungku Omar, Ipoh, Perak, 2011, National
49. Representing USM ,Development of MABBIM Civil Engineering Glossary, Dewan Bahasa & Pustaka Malaysia, Ministry of Edc.,1/1/1998- 1/1/1998,
50. Representing USM ,Development of National Environmental Glossary, Dewan Bahasa & Pustaka Malaysia, Ministry of Edc.,1/1/1993- 31/12/1994,
51. Representing USM ,Development of Specifications for contaminated land, Dewan Bahasa & Pustaka Malaysia, Ministry of Ed,1/1/2007- 31/12/2011.
52. Representing USM ,Development of Specifications for contaminated land, Dewan Bahasa & Pustaka Malaysia, Ministry of Ed,1/1/2007- 31/12/2011,
53. Representing USM for the development of MABBIM Civil Engineering Glossary, Dewan Bahasa & Pustaka Malaysia, Ministry of Education, 1998 to date.

54. Representing USM for the development of National Environmental Glossary, Dewan Bahasa & Pustaka Malaysia, Ministry of Education, 1993-1994.
55. Representing USM for the development of Specifications for contaminated land, Dewan Bahasa & Pustaka Malaysia, Ministry of Education, 2007 to date.
56. Semi-aerobic landfill, Invited paper, 2nd ISWA Summer School 2013, Institute of Biological Sciences, University of Malaya, 2013, International
57. Speaker, Quality Publication Workshop, School of Environmental Engineering, Universiti Malaysia Perlis (Unimap), 20 March 2012, Universiti Malaysia Perlis (Unimap), 2012, National
58. Waste management and landfilling challenges in developing countries, Invited paper, International workshop, Faculty of Engineering, Fukuoka University, 2013, International

Last updated 30 June 2016