

CURRICULUM VITAE**Zulkifli Yusop**, *PhD, Professor, FASc*

Senior Fellow

Centre for Environmental Sustainability and Water Security (IPASA)

Universiti Teknologi Malaysia (UTM), 81310, Skudai Johor

**A) PERSONAL DETAIL**

Name: ZULKIFLI BIN YUSOP, PhD.  
 IC number: 6111012-01-5529  
 Sex: Male  
 Date of birth: 12 October. 1961  
 Place of birth: Muar, Johor  
 Marital status: Married  
 Home address: 45 Jln Flora 3/1, Taman Flora Ville  
 81300 Skudai JOHOR, MALAYSIA  
 Office address: Fakulti Kejuruteraan Awam  
 Universiti Teknologi Malaysia  
 81310 UTM, Skudai  
 Johor, Malaysia  
 Telephone: 07-5531508/31578 (of); 07-5204524 (h);  
 012-7770205 (hp)  
 Fax: 607-5531575 or 607-556 6157  
 e-mail: [zulyusop@utm.my](mailto:zulyusop@utm.my) / [zulkifliyusop@gmail.com](mailto:zulkifliyusop@gmail.com)

**B) QUALIFICATION**

1984 -B.Sc. (Environmental science), Universiti Pertanian (now Putra) Malaysia (UPM)  
 1990 -Master (Environmental science),UPM  
 1996 -Ph.D. (Environmental Hydrology), University of Manchester, United Kingdom

**C) PROFESSIONAL MEMBERSHIP**

1. **Fellow**, Malaysia Academy of Professor since Feb 2020.
2. **Fellow**, Academy of Science Malaysia (FASc) since April 2012
3. Group Leader, Asian Network on Climate Science and Technology (ANCST) Special Topic: Climate Change, Flood and Anthropogenic Activities from March 2017
4. **Associate Fellow**, Academy of Sains Malaysia (2010-Apr 2012)
5. Registered EIA Consultant and Subject Specialist to the Department of Environment (Registration no CS 0325)
6. **Ahli Majlis Professor Negara**, Kluster Sumber Asli dan Alam Sekitar (since January 2012).

7. **Ketua** Sub-Cluster Water Security, Majlis Professor Negara (Jan 2014- Jun 2018)
8. **Group Leader (Hydrology)** for Japanese Society for the Promotion of Science (JSPS)-Asian Core Program (2011-2016)
9. **Secretary**, International Water Association specialist Group on Appropriate Technology for Developing Countries (membership – 00886231
10. **Exco Member**, Malaysian International Hydrological Program (MIHP) – Since 2001
11. **Council Member**, Malaysian Water Association, (Oct 2013-Sep 2015)
12. **Council Member**, Malaysian Water Association, 2007-2010 (membership no OM 0911)
13. Member, International Water Association (membership no – 00886231)
14. Member, Malaysian Hydrological Society (membership no – 0021)
15. Member, Malaysia Nature Society (membership no –O N 21533 J)
16. Member, Malaysian Geographical Society
17. Member, International Association of Hydrological Science (IAHS) (membership no – 7813)
18. Member, Asia-Pacific Hydrology and Water Resources Association (APHA)
19. **Member**, Malaysian Water Association Standing Committee on Further Education and Research (2005)

#### D) ADMINISTRATION AT UTM

1. **Research Chair, Resource Sustainability Research Alliance UTM** (Feb 2015 – Feb 2019)
2. **Dean of Research, Water Research Alliance, UTM** (Mac 2009- Jan 2015)
3. **Elected Senate Member of UTM**, Feb 2020- Oct 2021.
4. **Senate Member**, Universiti Teknologi Malaysia (2009-Feb 2019)
5. **Director**, Institute of Environmental and Water Resource Management, UTM, Johor (Sept 2006- Feb 2009)
6. **Board of Director**, Lembaga Urus Air Selangor (LUAS) (since February 2009)
7. **R&D Manager**, Institute of Environmental and Water Resource Management, UTM, Johor (2002 to Dec 2005)
8. **Secretary**, Environmental Technology Focus Group UTM (2002 to Dec 2005)
9. **Subject Coordinator**, Integrated Water Resource Management (SAM 5613)

#### E) RESEARCH/PUBLICATION COMMITTEE/TASK FORCE

1. **Editor**, Water Science and Technology (IWA journal, IF = 1.6) Feb 2013- Feb 2020
2. **Editor**, Special Issue for Hydrological Research on flood catastrophes in a changing world , 52 (1) 2021. (IWA Journal, IF 2.5)
3. **Associate Editor** of Water Science and Technology (International Water Association, Impact factor 1.12), 2008 – Jan 2013
4. **Chief Editor** Malaysian Journal of Civil engineering (2004-2009)
5. **Editorial Board**, International Journal of Applied Engineering (India) (2012-2015)

6. **International Advisory Board** of the Journal of Hydrology and Environmental Research (Australia) 2013-2015
7. **Editorial Board**, International Journal of Civil and Structural Engineering Research and Technology (IJCSERT) <http://ijcsert.com/board.html>
8. **Chief Editor**, Jurnal Kejuruteraan Awam, UTM (August 2003- Dec 2005)
9. **Editorial Board** Malaysia Water Resources Journal published by NAHRIM
10. **Member**, Research Committee for Malaysian International Hydrology Program (MIHP)
11. **Member, Review Panel** for FRGS and ERGS of the Ministry of Higher Education (Since April 2011)
12. **Consultant** for various projects related to forestry and hydrology, river rehabilitation, flood mitigation and EIA reports
13. **Technical review panel** for various detail EIA reports

**F) CHAIRMANSHIP/COMMITTEE/ MAJOR TASKS**

1. **Panel Pakar**, Projek Dana Penyelidikan dan Pembangunan (R&D) Kementerian Sains, Teknologi dan Inovasi (MOSTI), 1Jan 2021 -31 Dec 2023.
2. **Task Force Chairman**, Study on the achievement or impact of UTM's Faculty of Engineering Synergy. UTM Council of Professor. (Nov 2020-Jan 2021)
3. **Task Force Chairman**, Water Sector Transformation 2040 Study on Virtual Water and Water Footprint under Academy of Science Malaysia. (May 2020 to Dec 2021)
4. **Head of Domain** for Natural Science and Heritage Cluster of the Reseach Grant (FRGS, PRGS) under the Ministry of Education Malaysia. Apr 2020-Dec 2020
5. **Head of Domain** for Natural Science and Heritage Cluster of the Reseach Grant (FRGS, PRGS) under the Ministry of Education Malaysia. Jan 2019-Dec 2019
6. **Evaluation Panel** for FRGS, PRGS, TRGS and LRGS research grants under the Ministry of Education Malaysia. Jan 2019-Dec 2019
7. **UTM Principal Investigator and Project Leader**, Research Collaboration between National Tsing-Hua of Taiwan and UTM under the Innovation Center for Clean Water and Sustainable Energy (WISE) Nov 2018 to Oct 2021.
8. **Organising Chairman**, 4<sup>th</sup> International Conference on Water Resources (ICWR-2018). 27&28 Nov. 2018. Langkawi, Malaysia
9. **Committee member** of TC21: Transdisciplinary Approach (TDA) for Building Societal Resilience to Disaster of Asian Civil Engineering Coordinating Council (ACECC). Since Mac 2019
10. **Committee Member**, Water Committee of Academy of Science Malaysia.
11. **Organizing Chairman**, Second International Conference on Flood Catastrophes in Changing Environment. Kuala Lumpur, 15&16 Nov 2018
12. **Deputy Chairman**, Indonesia & Malaysia Research Collaboration (I'M RC) and Networking under MRUN/MoE. (Aug 2018- Feb2019)
13. **Chairman**, JK Research Alliance Allingment with Synergy 4.0 UTM

14. **Chairman and Evaluation Panel** of the Long Term Research Grant (LRGS) under the Ministry of Education , 5-7 Jun 2018
15. **Head of Cluster** for Natural Science and Heritage Cluster of the Fundamental Research Grant under the Ministry of Higher Education. April 2018
16. **Chairman**, Working Group Committee on Research CREAM/MAMPAN/CIDB Research Project (since Nov 2017)
17. **Chairman**, JK Pra-JITU UTM, Jun- Dec 2017.
18. **Chairman**, JK Penyediaan Polisi Penyelidikan dan Pembangunan UTM, Jan-Dec 2017
19. **Organizing Committee and Event Manager**, Johor Water Leader Forum, Mutiara Hotel, Johor Bahru. 2&3 Oct 2017.
20. **Organizing Chairman**, Simposium Kelestarian Air Negeri Johor. KSL, Johor Bahru. 7&8 July 2017
21. **Head of Cluster**, Natural Heritage and Environment for Fundamental Research Grant under the Ministry of Education Malaysia/ Ministry of Higher Education (Since Feb 2016)
22. **Organizing Chairman**, International Conference on Flood Catastrophes in Changing Environment. Kuala Lumpur, 15&16 Nov 2016
23. **Organizing Chairman**, Persidangan Kajian Banjir 2014, at Pullman Hotel Putrajaya 4-6 Apr 2016. Duration: Oct 2015 – May 2016
24. **Program Chairman** of the National Research Grant on Flood Disaster 2014 from the Ministry of Education (RM 20 million), Jan – Dec 2015.
25. **Chairman** of the Technical Committee on publication, Water Malaysia 2015 Conference and Exhibition, KLCC 23 -25 April 2015.
26. **Organizing Chairman**, The First National Conference on Nonpoint Sources Pollution. 14&15 May 2014, Kuala Lumpur.
27. **Organizing Chairman**, 2nd International Water Association (IWA)- Young Water Professional Workshop. May 2015.
28. **Chairman**, Akademi Sains Malaysia's Task Force on Water Supply and wastewater (Jul 2012-Jun 2013)
29. **Organizing Chairman**, 2nd International Water Association (IWA)-UTM International Publication Workshop. 12- 18 January 2013.
30. **Organizing Chairman** of the 2<sup>nd</sup> Water Awareness Program in conjunction with Inter- varsity Boat Race, Putrajaya. 12& 13 Oct 2012
31. **Organizing Chairman**, Workshop on Consensus Building for Environmental Sustainability. 23 & 24 May. 2012
32. **Organizing Chairman**, 1<sup>st</sup> IWA-UTM International Publication Workshop. 18-24 March 2012
33. **Organizing Chairman**, Kem Pemimpin Muda Sumber Air Negeri Pahang. At Tasik Chini Resort, 23-25 Mac 2011..
34. **Organizing Chairman**, Roundtable Dialogue on Water has no Value. 28 Oct 2011
35. **Organizing Chairman**, Water Awareness Program in conjunction with Inter- varsity Boat Race, Putrajaya, 25 &26 Oct 2010

36. **Organizing Chairman**, Sustainable Water Awareness Camp for School Children in Sarawak, Kampung Sukan PETRONAS, Miri, Sarawak. 7-9 April 2009.
37. **Organizing Chairman** of Postgraduate Seminar on Water Sustainability, UTM Skudai, **20 January 2010**
38. **Organizing Chairman**, the 1<sup>st</sup> Young Water Professionals Conference, IWA YWP 2010, 1-4 Mar 2010
39. **Member**, UTM's Carbon Footprint Committee. 2010.
40. **Organizing Chairman**, International Conference on Environment Management and Technology (ICEMAT), Kuala Lumpur, 3&4 Dec 2008
41. **Organizing Chairman**, National Environmental Awareness Program for School Children under Malaysian National Commission for UNESCO, at Hutan Bakau Larut Matang and Langkawi Geopark, 4-10 May 2008
42. **Organizing Chairman**, Malam Puisi Alam in Conjunction with National World Water Day, Kuala Terengganu, 13 April 2007
43. **Organizing Committee/Advisor**, Water Awareness Camp to School Children in Terengganu in Conjunction with National World Water Day, 11-13 April 2007
44. **Organizing Chairman**, Innovative Approach for Sustainable Water Resources Management, Kuala Lumpur, 13&14 March 2007
45. **Organizing Chairman**, Kem Pengurusan Air Secara Mampan untuk Pelajar-Pelajar Sekolah Menengah Negeri Perlis. Tasik Melati Kangar, 22&23 Apr 2006.
46. **National Committee**, World Water Day Celebration. March 2006.
47. **Organizing Committee**, National Conference Water for Sustainable Development towards a Developed Nation by 2020. Mar- Dec 2005
48. **Secretary**, National Committee River Expedition Program 2005 (NARIN'05). Nov-2004 – Sep 2005
49. **Advisor & Chairman for UTM Committee**. National River Expedition NARIN '05 . Jan – Sep 2005.
50. **Chairman**, Workshop on Journal Article Review, Faculty of Civil Engineering, 7 Dis 2005
51. **Organizing Chairman**, Water Resources Management Course, UTM/MHS, Dec 6&7, 2004
52. **Organizing Chairman**, River Quality Modelling Course using QUAL2E 23&24 Mar 2003
53. **Adviser**, Berita FKA, UTM Feb 2002- Dec 2003
54. **Organizing Chairman**, Intensive Course in Hydrology organized by IHP/UTM Sep 2002
55. **Organizing Chairman**, Workshop I - The Study on Pollution Prevention and Water Quality Improvement of Sungai Tebrau and Sungai Segget, Johor. Organised by UTM and the Department of Environment, Johor Bahru, 8&9 Mar 2002
56. **Organizing Chairman**, Workshop II - The Study on Pollution Prevention and Water Quality Improvement of Sungai Tebrau and Sungai Segget, Johor. Organised by UTM & DOE, Johor Bahru, Dec 2002

57. **Organizing Committee**, National Seminar on Pollution Prevention and Water Quality Improvement of Sungai Tebrau and Sungai Segget, Johore. Organised by IPASA/UTM
58. **Coordinator** Purchasing Committee (Fundamental Research) under Islamic Development Bank grant for Faculty of Civil Engineering (2002-2004)
59. **National Chairman** of the Education, Training and Public Information Committee of the Malaysian International Hydrology Program (MIHP) (2001 - 2012 ).
60. **Chairman and Editor in Chief**, Working Committee for the preparation of Annual Report year 2000 the Faculty of Civil Engineering, UTM **Organizing Committee**, International Water Association Conference at PWTC, KL, Oct 2001
61. **Editor**, Civil Engineering Bulletin, Faculty of Civil Engineering, UTM, 2001&2002
62. **Member**, Organising Committee on The Regional Conference on Hydrology and Environment of Small Islands, Tioman Island, Malaysia, 29 - 31 May 2000. Organised by UTM/IHP
63. **Organizing Chairman**, National Seminar on Forest and Water, FRIM, Kepong. 31 Mar & 1 Apr 1999.
64. **Organizing Committee**, Workshop IV on Impact of Logging in Muda/Pedu Catchment. Apr 1998
65. **Member**, Environmental Audit Committee for New England Energy System (NEES)/Innoprise Corporation Sdn. Bhd. Reduced Impact Logging (RIL). Aug 1998.
66. **Head**, Research Committee on Hydrological Impact of Zero Burning for Forest Plantation Establishment. 1997&1999.
67. **Member**, Research Committee for Developing a Model Project for Cost Analysis to Achieve Sustainable Forest Management – project under International Tropical Timber Organization (ITTO), PD31/95 Rev.3 (F) Jan 1997-Dec 2000
68. **Member**, FRIM's MS ISO9000 Committee, 1997-1999
69. **Chairman**, for FRIM' staff in the Council with the Government for FRIM, 1997&1998
70. **Review Panel**, Detail EIA of the Lekir Coastal Development (Land Reclamation and Deep Water Terminal, Mac 1997
71. **Review Panel** Detail EIA of the Coastal Reclamation Project at Bagan Datoh, Perak, Jul 1997.
72. **Review Panel** Detail EIA for Coastal Land Reclamation Project at Kedah, Darul Aman, Feb 1997.
73. **Organizing Committee**, Ministry of Primary Industries' Green Award, 1997
74. **Member**, "Majlis Bersama Kerajaan FRIM", 1995&1996.
75. **Member**, FRIM's Invention and Innovation Committee, 1994&1995
76. **Member**, National Technical Committee International Geosphere-Biosphere Program (IGBP), 1993-1997
77. **Committee Member**, International Hydrology Programme (IHP) for Malaysia, 1991-1999
78. **Organizing Committee** Regional Seminar on Tropical Forest Hydrology, Sep 1989
79. **Secretary**, Working Committee on Land-use Pattern and its Impact on Water Resources in Damansara Catchment, Selangor, 1988-1990

80. **Member**, Working Committee on Sungai Tekam Experimental Basin headed by DID, Malaysia, 1986-1989.

#### G) TEACHING

1. **Undergraduate courses:** Forest Hydrology and Catchment Management (UPM-1991), Hydrology, Integrated Water Resource Management, Research Methodology and Problem Solving in Civil Engineering
2. **Post graduate courses:** Water Resources Development, Statistical Hydrology
3. **Course coordinator:** Integrated Water Resource Management, 2001-2011
4. **Board of Study**, Master of Civil Engineering, Universti Tunku Abdul Rahman (UTAR) (since Jan 2019)
5. **Board of Study**, Master of Disaster Risk Management MJIIT (since Nov 2018)

#### H) AWARDS

1. Malaysia **Outstanding Water Award** for Research 2019 by The Malaysian Water Association.
2. Visiting Professor to Universitas Hassanuddin, Makasar. 4 to 6 Mar 2019.
3. Tokoh Penyelidik Fakulti Kejuruteraan UTM for 2018
4. Tokoh Penyelidik 2018 by the School of Civil Engineering, UTM
5. UTM's 2018 Best Journal Publication Award.
6. UTM's 2018 Excellence Service Award
7. Appointed as **World Class Professor** by Insitute Teknologi Sepuluh Nopember, Surabaya. 18-24 August 2019.
8. Visiting Professor to National Tsing Hua University of Taiwan, 19-23 March 2019
9. Visiting Professor to Oxford University, UK, 2 – 10 Nov 2018.
10. Invited as Research Collaborator by Newcastle University, 13-16 February 2019.
11. Research Award 2017, Faculty of Civil Engineering, UTM
12. Visiting Scientist to Kumamoto University 2-5 July 2017
13. UTM's Best Consultancy Award 2016: Integrated Lake Basin Management Plan for Semberong and Batang ai Reservoirs for NAHRIM/NRE, value RM 1,262,073 (As Project Leader)
14. **Silver Medal**, 17<sup>th</sup> Industrial Art and Technology Exhibition (INATEX) 2015. PES-SiO<sub>2</sub> Hollow Fiber Membrane for Bisphenol A (BPA) Removal.
15. Visiting Scientist of the Asia Core Program –Japanese Society for the Promotion of Science (25-29 Jan 2014)
16. Visiting Scientist to University of Kyoto (27 Oct to 30 Oct 2013)
17. Fellow Akademi Sains Malaysia (Jun 2012 -now)
18. UTM's Best Consultancy Award 2011, Water Resources study in Gugusan FELDA Sahabat , Lahad Datu, Sabah for FELDA, Value RM 1.09 million (as project leader)

19. UTM's 2010 excellence service award
20. INATEX 2010, **Brownse Medal**. Software and technique for optimization of raingauge network
21. UTM's 2009 excellence service award
22. Visiting Professor at Lund University, Sweden. January 2009
23. UTM's Publication Award 2006 for International Journal Category
24. UTM's sabbatical program - 1 December 2004 to 31 August 2006
25. Eco-Frontier Fellowship, Ministry of Environment, Japan: 12 December 2005 to 31 March 2006
26. UTM's 2004 Excellence Award for Best Research Group.
27. Eco-Frontier Fellowship, Ministry of Environment, Japan: 18 Jan to 30 March 2005
28. UTM's 2003 excellence service award
29. Eco-Frontier Fellowship, Ministry of Environment, Japan: 4 Jan to 30 March 2004
30. Technical visit grant from the Japanese Society for the Promotion of Science (JSPS) Nov 2001
31. FRIM's Best Publication Award for technical category - 1999 (2nd prize)
32. FRIM's Best Publication Award for Manual and Guidelines Category - 1998 (1<sup>st</sup> prize)
33. Research Award for Foreign Specialist by Forestry and Forest Products Research Institute, Japan (1998)
34. FRIM's Best Publication Award for technical category – 1994 (1st prize)
35. Japan Science and Technology Agency (STA) Fellowship , February and March 1987

## **I) RESEARCH GRANT**

### **a) International Grants (9 Projects)**

1. Title: Water Security and Sustainable Development Hub  
 Field: Intergated River Basin Management (IRBM) and Water Resources Management  
 Role: **Deputy Program Leader**  
 Duration : Mar 2019-Feb 2022  
 Members: Newcastle University, UTM, Univ of Leeds, UN Habitat, Universidad del Valle Colombia, Oxford University, IIT India, Ethiopia  
 Value: Total £ 10 mill. To UTM £1.44 mil (RM 7.8 mill)  
 Sponsor: Global Challenge Research Fund (GCRF), UK.
2. Title: Transference from Crime Scene to Forensic Evidence: Linking land-use, Erosion, Sediment and Quantitative Evaluation of Erosion in Kelantan River Basin, Malaysia.  
 Field: Soil Erosion  
 Role: **Co-Reseracher**  
 Duration : Sep 2016- Dec 2020  
 Members: UTM, University Malaysia Sabah  
 Value: RM 476, 970.00



- Sponsor: Rasmussen Family Foundation, Santa Clara, USA
3. Title: Watershed level assessment of climate change and land use on future water security
- Field: Hydrology
- Role: **Project Leader**
- Duration : May 2013-April 2015
- Members: UTM, Institute Teknologi Sepuluh Nopember, Kyoto University
- Value: USD 49,790 (**RM 161,289.21**)
- Sponsor: Asia University Network/JICA: Vot: 4B114
4. Title: Wadi Corridor modeling for urban flood management of Almadinah Al Munawwarah
- Field: Climate change impact
- Role: **Co-Researcher**
- Duration : Sep 2011-Aug 2013
- Value: SAR 1,250,000
- Sponsor: Taibah University, Madinah : Vot University Taibah
5. Title: Innovative Decision Making for Sustainable Management of Water in Developing Countries (as co-researcher)
- Field: Water Management, Catchment Management
- Role: Co- Project Leader with Prof Zaini Ujang
- Duration : Jan 2005- Jun 2008
- Members: EU, University of Natural Resources and Applied Life Science (Vienna), Univ of Oxford, Polytecnic of Bari (Italy), Institute of Technology Surabaya,
- Value: **RM 1,300,000**; vot 68411
- Sponsor: Commission of the European Communities.
6. Title: Evaluation of logging impacts on soil erosion and watershed ecosystem (**Study Leader**)
- Field: Soil erosion and nutrient losses modelling
- Role: Co-Researcher
- Duration : 2003-2005
- Members: National Institute for Environmental Studies, Japan.
- Value: In Kind as Visiting Scientists
- Sponsor: National Institute of Environmental Studies, Japan
7. Title: Developing a Model Project for Cost Analysis to Achieve Sustainable Forest Management.
- Field: Hydrology, Sedimentation, Water Quality
- Role: Co-Researcher
- Duration : 1997-1999
- Members: FRIM,
- Value: USD 1.1 Mil
- Sponsor: International Tropical Timber Organization (ITTO)
8. Title: Quantification of micro-meteorological and hill slope hydrological processes
- Field: Forest micro-climate, energy and carbon balance, hill slope hydrology.
- Role: Co-Researcher
- Duration : Duration : 1993-1998
- Sponsor: National Institute of Environmental Studies, Tsukuba, Japan.

9. Title: Economic Benefits of Watershed Protection and Trade-off with Timber Production: a Case Study in Malaysia.  
 Field: Sedimentation rate, water quality.  
 Role: Co-Researcher  
 Duration : 1993-1996  
 Values: RM 100,000  
 Sponsor: Economy and Environmental Program for Southesat Asia (EEPSEA)

#### b) Selected National Research Grants (44 Projects)

1. Title River basin approach for integrated risk assessment and reduction of water-related hazards  
 Role Program Leader  
 Duration: 3 years, Jul 2019-Jun 22  
 Field Hydrology  
 Value RM 2,805,000  
 Sponsor KPM – LRGS MRUN
2. Title Temporal and spatial trends of rainfall intensity and regional Intensity Duration Frequency Curve (IDF) for Johor River Basin  
 Role **Project Leader**  
 Duration: Apr 2018-Mar 2021  
 Field Hydrology  
 Value 60,000. Vot: 04G46  
 Sponsor GUP- High Impact Research Grant
3. Title Spatial Variability of Carbon Storage Dynamics in Setiu Wetland  
 Role **Project Leader**  
 Duration: Feb 2018- Jan 2020  
 Field Eco Hydrology  
 Value 49,800 Vot: 20H46  
 Sponsor RUG
4. Title Combining cost benefit and reliability analysis of rainwater harvesting system for commercial buildings  
 Role **Project Leader**  
 Duration: Jun 2017–May 2019  
 Field Rainwater harvesting  
 Value RM 187,000 EScience Vot:4S137  
 Sponsor Escience Fund MOSTI
5. Title Development of Flood Damage Estimation Model for Flood Risk Management  
 Role **Project Leader**  
 Duration Jul 2016-Apr 2017  
 Field Flood Control  
 Value RM 39,800 Vot 15H00  
 Sponsor RUG UTM - IISJ

6. Title Critical environmental flows to support integrated ecological objectives for Sungai Johor  
Role **Project Leader**  
Duration Aug 2016-July 2019  
Field Environmental Flow  
Value RM 90,200: Vot 4F910  
Sponsor MoHE - FRGS
7. Title Effectiveness of Arsenic Risk and Hygienic Awareness Module on the Rural Water Supply in Cambodia – Phase 3  
Role **Project Leader**  
Duration: Feb 2016 –Dec 2016  
Field Multi- Discipline  
Value RM 55,000 Vot: 4L187  
Sponsor CLMV Grant Scheme Ministry of Education, Malaysia
8. Title Flood modelling and Environmental Flow of Sungai Johor Basin  
Role **Project Leader**  
Duration : Mar 2015-Jun 2016  
Field Hydrology  
Value RM 30,000  
Sponsor GUP-UTM
9. Title Kajian Forensik Banjir Disember 2014 Di Lembangan Sungai Kelantan Dan Perolehan Data Lidar (Lidar Detecting And Ranging)  
Role **Project Leader**  
Duration : Jan 2015 – May 2016  
Field Flood Management, Hydrology  
Value RM 1,647,500 Vot 4L163  
Sponsor MOHE – Special Grant on 2014 Flood Disaster
10. Title Characterization of Malaysia’s East-Coast Extreme Rainfall and Formulation of Rainfall Distribution Pattern  
Role **Project Leader**  
Duration: Apr 2015 – Dec 2015  
Field Hydrology/Rainfall Analysis  
Value 97,700 Vot: 4L832  
Sponsor MOHE – Special Grant on 2014 Flood Disaster
11. Title Managing Future Flood Affected by Climate Change: Focusing on Kelantan River Basin  
Role **Program & Project Leader**  
Duration: Apr 2015 –Dec 2015  
Field Multi- Discipline  
Value RM 518,224  
Sponsor Trans Research Grant Scheme (TRGS) MoHE – Special grant for 2014 flood disaster
12. Title Kajian Hasil Penemuan Penyelidikan Bencana Banjir Di Lembangan Sg Kelantan  
Role **Project Leader**  
Duration: Sep 2015-Sep 2017

- Field Disaster Management  
Value 630,700  
Sponsor MOHE – Special grant on Flood; Vot - 4L175
13. Title Climate change and water security: Watershed level assessment and land use on future water security.
- Role **Project Leader**  
Duration: May 2014-Jul 2016  
Field Watershed Management  
Value 50,906.00 Vot 0041 (Matching Grant)  
Sponsor RUG UTM
14. Title Deriving Initial Abstraction Coefficient Ratio to Improve Flood Forecast and Prediction in Malaysia
- Role **Project Leader**  
Duration: Apr 2014-Jun 2016  
Field Hydrology  
Value RM 49,000 VOT – 07H23  
Sponsor RUG Tier 1
15. Title Rainwater Harvesting in UTM Campus
- Role **Project Leader**  
Duration: Apr 2013 –Mar2014  
Field Rainwater Harvesting  
Value RM 130,000 Vot: 01G19  
Sponsor UTM Research University Grant
16. Title Combining peakflow, volume and duration using bivariate copula method for an improved flood frequency modeling
- Role **Project Leader**  
Duration 1 Apr 2013 – 31/3/2015  
Field Stochastic Hydrology  
Value RM 93,000  
Sponsor FRGS; VOT 4F208
17. Title: Rural water supply in Cambodia - Phase 2  
Field: Arsenic treatment  
Role: **Project Leader**  
Duration : April 2013- Mar 2014  
Members: UTM, Institute of Technology Cambodia (ITC), Industrial Laboratory Center of Cambodia (ILCC)  
Value: **RM 225,000**  
Sponsor: MOHE; VOT - 4B106
18. Title: Micro-Pollutants Removal using Combined Membrane Filtration, Advanced Oxidation Process and Adsorption for Safe Drinking Water
- Field: Water Quality  
Role: **Project/Program Leader**  
Duration : Jun 2012-May 2017  
Members: UTM and USM  
Value: **RM 1,500,000**  
Sponsor: MOHE Grant LRGS Vot 4L810

19. Title Agricultural non point source pollution and impact on reservoir sedimentation and water quality  
Role **Project Leader**  
Duration Jul 2011-Jun 2014  
Field Lake eutrophication, non-point source pollution modelling  
Value RM 450,000; Humid Tropic Centre,KL ; **Vot 4B041 (Contract Research)**
20. Title Combining Instream Routing and Satellite Imagery for Integrated Flood Early Warning System  
Role **Project Leader**  
Duration Oct 2011 – Sept 2014  
Field Stochastic Hydrology  
Value 842,908: GUP; vot-
21. Title Study on the Current Status and Needs Assessment of Water Resources Research in Malaysia  
Role **Project Leader**  
Duration 8 months (Jan – Aug 2012)  
Field Malaysian Academy of Science; RM 73,000  
Value **RMC Mot 4C032 (Contract Research)**
22. Title: Development of best management practices for controlling erosion and sedimentation in oil palm catchments  
Role **Project Leader**  
Field Hydrology and Soil Erosion  
Duration Sept 2008-August 2010  
Value RM 115,000 VOT R.J130000.7922.3S324  
Sponsor E-Science
23. Title: Rural water supply in Cambodia – Phase 1  
Field: Water Quality  
Role: **Study Leader**  
Duration : Sep 2011-Jul 2012  
Members: UTM, Institute of Technology Cambodia (ITC), Industrial Laboratory Center of Cambodia (ILCC)  
Value: RM 95,000  
Sponsor: Ministry of Higher Education Malaysia
24. Title Determination of Build-up and Wash-off Coefficients for Stormwater Quality Assessment  
Role Project Leader  
Field Non Point Sources Pollution  
Duration 24 months  
Value 117,000; source: GUP UTM; vot no 01H72
25. Title Detailed Quantification of Erosion Processes and Modelling of Sediment Yield in Oil Palm Catchments  
Role **Project Leader**  
Field Erosion & Sedimentation  
Duration Sep 2007-Aug 2009  
Value **RM 100,000.00**  
Sponsor MoHE Mot 3F234

26. Title Development of Runoff Generation Processes in Forested and Agricultural Catchments  
Role **Project Leader** at UTM – A multi agencies project  
Field Rainfall-runoff Process  
Duration Jan 2004- Dec 2007  
Value RM 204,000.00 (IRPA Vot 74287)
27. Title Hydrological quantification of oil palm catchments for an improved streamflow modeling (As Project Leader):  
Role **Project Leader**  
Field Hydrology, water quality, rainfall-runoff modeling  
Duration Jan 2004- Dec 2006 (IRPA vot 74237)  
Value RM 298,000.00
28. Title Modeling Pollution-Related Diseases Using Poisson Time Series Models  
Role Co-Researcher  
Field Hydrology  
Duration Feb 2018-Jan 2020  
Value RM 50,000 RUG Tier 1; VOT 20H14
29. Title Modelling of convective rains for predicting flash flood  
Role Co-Researcher  
Field Hydrology, rainfall-runoff modelling  
Duration November 2004- October 2007  
Value RM 186,200.00, IRPA–EAR (08-020610039) Vot 74280
30. Title Quantification and Management of Cumulative Watershed Effect  
Role **Project Leader**  
Field Watershed modeling, water quality, catchment management  
Duration Feb 2003- Jun 2005  
Value RM 325,000.00; IRPA Vot 74026
31. Title Changes in stormflow parameters and water quality following clearing  
Role **Project Leader**  
Field Hydrology, water quality  
Duration July 2000-Jun2001  
Value 19,800.00 (vot: 71628) ; UTM – short term grant
32. Title Natural organic matter (NOM) characterization for drinking water  
Role **Study Leader**  
Field Water quality  
Duration July 2000 to June 2001  
Value RM 17,000.00 (vot:71639); UTM Short term grant
33. Title Eco-Based Stewardship Towards Enhancing Pro-Environmental Behavior Among Utm Students  
Role **Co-Researcher**  
Field Water Management  
Duration Apr 2018- Mar 2021  
Value RM 59,200 RUG

34. Title Satellite-based Spatio-temporal LULC Analysis to Water Yields  
 Role **Co-Researcher**  
 Field Water Management  
 Duration Apr 2018- Mar 2021  
 Value 60,000 RUG Fund Vot : Q.J130000.2409.04G44
35. Title Developing an Integrated Disaster Risk Index considering Climate Change - A pilot project for Malaysian River Basin  
 Role Co Researcher  
 Field Watershed Management  
 Duration May 2017-Apr 2019  
 Value RM 300,000 VOT R.J130000.7722.4J282
36. Title Identifying Influence of Rainfall Characteristics and First Flush Behaviour in Tropical Area  
 Role Co Researcher  
 Field Water Quality  
 Duration Jan 2016-Jul 2019  
 Value RM 107,000 Vot 4F894
37. Title Indeks Syariah Malaysia 2017 - Prasarana Dan Persekitaran  
 Role Researcher  
 Field Environmental Management  
 Duration Nov 2016 – Jun 2017  
 Value RM 90,000 VOT: 4Y057
38. Title Determination Of Floodplain Change And Its Impact On Flood Modelling Using Multi-Temporal DEM And Land Use/Land Cover From INSAR/SAR  
 Role Co-Researcher  
 Field Hydrology  
 Duration Apr 2015-Mar 2016  
 Value RM 90,000 : VOT – 4F689
39. Title UTM-MIT Sustainable Cities  
 Role Co-Researcher  
 Field Water Management  
 Duration Apr 2013-Mar 2015  
 Value RM 4,320,000 VOT 01G38
40. Title Hillslope hydrological processes in the tropics  
 Role Co-Researcher  
 Field Surface Hydrology  
 Duration 1996-1998  
 Value RM 233.000; IRPA (08-04-01-007)
41. Title Selective logging impacts on hydrology, water quality and sedimentation  
 Role **Co-Researcher**  
 Field Water quality, hydrology, sedimentation  
 Duration 1985-1990  
 Value FRIM

- |     |          |                                                                       |
|-----|----------|-----------------------------------------------------------------------|
| 42. | Title    | Effects of forest plantation establishment on hydrological attributes |
|     | Role     | Co-Researcher                                                         |
|     | Field    | Hydrology, water quality, catchment nutrient recovery                 |
|     | Duration | 1997-1999                                                             |
|     | Value    | RM 268,000.00; IRPA (10032/00700/218/210)                             |
| 43. | Title    | Effects of plantation establishment on hydrological attributes        |
|     | Role     | Co-researcher                                                         |
|     | Field    | Hydrology, water quality                                              |
|     | Duration | 1986-1988                                                             |
|     | Value    | RM 50,000; Department of Irrigation and Drainage                      |
| 44. | Title    | Highland Hydrology (Cameron Highland)                                 |
|     | Role     | Co-Researcher                                                         |
|     | Field    | Sedimentation, Water Quality                                          |
|     | Duration | 1990-1991                                                             |
|     | Value    | RM 50,000; TNB and DID                                                |

## J) CONSULTANCY

### a) **Local Clienteles (43 projects)**

- |    |            |                                                                                                                                    |
|----|------------|------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Title:     | Flood modelling and Mitigation measures for Sime Darby Plantation at Ladang Simpang Kiri , Chaah.                                  |
|    | Role:      | Project Leader                                                                                                                     |
|    | Duration:  | Jul 2020-Feb 2021                                                                                                                  |
|    | Client:    | Sime Darby                                                                                                                         |
|    | Values     | RM 116,302                                                                                                                         |
|    | Vot Number | UTSB 1731                                                                                                                          |
| 2. | Title:     | Climate Change Readiness Index                                                                                                     |
|    | Role:      | Project Leader                                                                                                                     |
|    | Duration:  | Mar- Nov 2020                                                                                                                      |
|    | Client:    | DNeX Sdn Bhd                                                                                                                       |
|    | Values     | RM 309,826.20                                                                                                                      |
|    | Vot Number | UTSB 1670                                                                                                                          |
| 3. | Title:     | Study on Total Maximum Daily Load for Sungai Skudai                                                                                |
|    | Role:      | Project Leader                                                                                                                     |
|    | Duration:  | 8 Months (Aug 2020-Mar 2021)                                                                                                       |
|    | Client:    | Badan Kawal Selia Air Johor (BAKAJ)                                                                                                |
|    | Values     | RM 480,000.00                                                                                                                      |
|    | Vot Number | UTSB 1709                                                                                                                          |
| 4. | Title:     | Feasibility study on the design of decentralised water treatment system and related work in the Federal Territory of Kuala Lumpur. |
|    | Role:      | <b>Project Leader</b>                                                                                                              |
|    | Duration:  | Oct 2019- May 2020                                                                                                                 |
|    | Client:    | National Hydraulic Research Institute of Malaysia (NAHRIM)                                                                         |
|    | Values     | RM 250,000                                                                                                                         |



- Vot Number      UTSB 1605
5. Title:            Climate change adaptation framework for water sector  
Role:                **Project Leader**  
Duration:          Oct 2019-May 2020  
Client:              National Hydraulic Research Institute of Malaysia (NAHRIM)  
Values                RM 150,000  
Vot Number        UTSB 1606
6. Title:            Flood modelling and Mitigation measures for Sime Darby Estate, Sarawak region, Bintulu, Sarawak  
Role:                Project Leader  
Duration:          Oct 2019-Apr 2020  
Client:              Sime Darby  
Values                RM 138,273.72  
Vot Number        UTSB 1599
7. Title:            Environmental flow analysis for water resources management guideline in Malaysia  
Role:                **Project Leader**  
Duration:          Dec 2018-May 2019  
Client:              Qalamas Sdn Bhd  
Values                RM 115,000  
Vot Number        UTSB 1446
8. Title:            Rancangan Kawasan Khas (RKK) Sungai Skudai  
Role:                Project Leader  
Duration:          Feb – Sep 2019  
Client:              RJ Planning  
Values                RM40,000  
Vot Number        UTSB 1534
9. Title:            Kajian Desktop Amalan Kejuruteraan Terkini Terhadap Kekentalan Iklim (Climate Resilient)  
Role:                Project Leader  
Duration:          Nov 2018- Apr 2019  
Client:              Ikhlas Services Resources  
Values                RM 40,000  
Vot Number        UTSB 1457
10. Title:           Water Management Blueprint for PBT Pengerang  
Role:                **Project Leader**  
Duration:          9 month (Jan 2018-Sep 2018)  
Client:              PBT Pengerang  
Values                RM 358,856.93  
Vot Number        UTSB 1288
11. Title:           Water Leader Forum 201  
Role:                **Project Leader**  
Duration:          July 2017 – Nov 2017  
Client:              Badan Kawal Selia Air Johor (BAKAJ)  
Values                RM 308,550.00  
Vot Number        UTSB 1209B

12. Title:                    Synposium Kelestarian Air Negeri Johor  
 Role:                        Projctct Leader  
 Duration:                   May 2017 – Sept 2017  
 Client:                     Badan Kawal Selia Air Johor (BAKAJ)  
 Values                      RM 226,612.10  
 Vot Number                UTSB Vot 1209A
13. Title:                    Integrated Lake Basin Management Plan for Semberong and Batang Ai Reservoirs  
 Role:                        **Project Leader**  
 Duration:                   May 2016 – Nov 2016  
 Client:                     National Hydraulic Research Institute of Malaysia (NAHRIM)  
 Values                      RM 1,262,073.  
 Vot Number                UTSB Vot 1025
14. Title:                    Study on Impact of Climate Changes on Water Resources for Selected Plantation Areas in Malaysia for Paddy, Rubber and Oil Palm  
 Role:                        **Project Leader**  
 Duration:                   Aug 2014-Dec 2014  
 Client value               National Hydraulic Research Institute of Malaysia (NAHRIM)  
                                   **RM 357,694.**  
 Vot Num                    **UTSB Vot 825**
15. Title:                    Rancangan Pengurusan Hutan Tadahan Air bagi Negeri Johor  
 Role:                        **Project Leader**  
 Duration:                   Jun 2013-Dec 2013  
 Client value               Johor State Forestry Department  
                                   RM 299,000  
 Vot Num                    UTSB Vot 750
16. Title:                    Water Resources study in Gugusan FELDA Sahabat , Lahad Datu, Sabah  
 Role:                        **Project Leader**  
 Duration:                   Mar 2011-Dec 2011  
 Client/value:              FELDA; RM 1.09 million  
 Vot Num                    UTSB Vot 591
17. Title:                    Penang Cybercity River s Rehabilitation Project  
 Role:                        **Project Leader**  
 Duration:                   May 2010-Nov 2010  
 Client/value:              DID/Perunding Azman and Rao: RM 163,106  
 Vot Num                    UTSB Vot 562
18. Title:                    Johor Water Resources Study – Influence of Climate Change  
 Role:                        **Project Leader**  
 Duration:                   Nov 2010-August 2011  
 Client/value:              SMSB; RM 204,641  
 Vot Num                    UTSB Vot 592
19. Title:                    Detailed Environmental Impact Assessment for the Proposed Tin Mining at the Coast Water off Kuala Sungai Baru, Alor Gajah,Melaka.  
 Role:                        **Project Leader**  
 Duration:                   Sept 2010-May 2011  
 Client/value:              Malacca State Government; RM 1.2 mill.

- Vot Num           UTSB Fot 547
20. Title:           Study on The Potential of Rainwater Utilisation in Supplementing Water Demand in Industry – In Terms of Quantity & Quality,
- Role:               **Project Leader**
- Field:              Hydrology, Water Quality
- Duration:          Jan 2010 – Nov 2010
- Client/value:      **NAHRIM; RM 236,162**
- Vot Num           **ICC Fot 63326**
21. Title:           Desk Study on River Buffer Zone in Malaysia: Policy, By Laws and Incentives
- Role:               **Project Leader/Hydrologist**
- Duration:          Mar-June 2010
- Client              NAHRIM;
- Value               RM 52,773
- Vot                 BIP 63318
22. Title:           Environmental Performance Index
- Role:               Team member
- Duration:          Sep 2011 – Dec 2012
- Client/value       Ministry of Natural Resources and Environment, RM 80,000
- Vot No:            **UTSB 623**
23. Title:           Environmental Performance Index
- Role:               Team member
- Duration:          Sep 2009 – Dec 2010
- Client/value       Ministry of Natural Resources and Environment, RM 300,000
- Vot No:            **UTSB 623**
24. Title            Mega Science Framework for Water
- Role:               **Project Leader**
- Duration:          Aug 2009 – June 2010
- Client/Value       Akademi Sains Malaysia/RM 300,000
- Vot:                BIP Fot 63325
25. Title:           Study on the Impact of Climate Change on Design Flood and its Application for the Damansara, Johor and Kelantan River Basin.
- Role                **Project Leader**
- Field:              Rainfall-runoff Modelling, stochastic hydrology
- Duration:          Dec 2008- Jun 2009
- Client              DID
- Value               RM 198,000.00
- Vot                 BIP Fot 63299
26. Title:           Optimization of rainfall observation network on model calibration and application for Johor, Muar and Batu Pahat River Basin
- Role:               **Project Leader**
- Field:              Rainfall-Runoff Modelling, Stochastic Hydrology
- Duration:          Sept 2008- April 2009
- Client              Department of Irrigation and Drainage (DID)
- value:             RM 331,934.68
- Vot                 BIP 63294

27. Title: Study on the Performance of Resam (*Dicranoptheris linearis*) and Vertiver grass (*Chrysopogon zizanioides*) for erosion control  
Role: **Project Leader**  
Field: Canopy hydrology, soil erosion  
Duration: April 2008-Mar 2009  
Client/value: Department of Irrigation and Drainage (DID)  
Value: RM 346,000.00  
Vot Number: BIP Vot 63286
28. Title: Detailed EIA study for the Proposed Extension of Pulp and Paper Mill in Sipitang  
Role: Consultant  
Field: Hydrology/Lowflow  
Duration: Jun 2008-Dec 2008  
Client value: Chemsain Konsultant Sdn Bhd, 22K
29. Title: Preparation of Cleaner Production Module  
Role: Consultant  
Field: Non-Point sources Pollution  
Duration: Feb 2009-Nov 2009  
Client Value: Department of Environment; RM 50,000  
Vot Num: BIP
30. Title: Hydrology and Soil Erosion Study For The Proposed Construction Of the Universiti Malaysia Kelantan, Bachok Campus;  
Role: **Project Leader**  
Duration: Nov 2007-Mar 2008  
Client value: Alam Sekitar Malaysia; RM 28,538  
Vot Num: UTSB Vot 549
31. Title: Rekabentuk Terperinci Sistem Saliran Bandar Senai, Johor  
Role: **Project Leader**  
Field: Flood control, Pollution Load  
Duration: Oct 2007-Apr 2008  
Client value: Perunding Azman & Rao; RM 210,000.00  
Vot Num: UTSB Vot 466
32. Title: Detailed EIA for Integrated Port at Ranche-Ranche Labuan  
Role: **Project Leader**  
Field: Hydrology  
Duration: 2008  
Client value: Jabatan Laut Malaysia; RM 1.3 mil  
Vot Num: BIP Vot 63033
33. Title: Macro Environmental Impacts Assessment for Forest Management in Johor  
Role: **Project Leader**  
Field: Hydrology, Soil Erosion

- Field: Oct 2007-April 2008  
Duration: Forestry Department, Johor;  
Client: RM 398,796  
value: UTSB Vot 457  
Vot Number
34. Title: Detailed EIA for the Proposed Construction of Ulu Jelai Hydro-Power Dam in Cameron Highland  
Field: Study Leader for Hydrology  
Duration: April – Dec 2007  
Client: TNB  
Value: 1.2 million  
Vot Num: BIP
35. Title: Macro Environmental Impact Assessment for Perak Forest Management Unit  
Role: **Project Leader**  
Duration: Dec 2006 – April 2007  
Client: Forestry Department, Perak/ASMA  
value: RM50,000  
Vot Num: UTSB Vot 427
36. Title: Detailed EIA study for Lebu Raya Pantai Timur  
Field: Hydrology  
Duration: Sept 2006 – Oct 2006  
Client: Ecotone Management Sdn Bhd  
value: RM 10,000
37. Title: EIA study for Shah Alam Waste Transfer Station  
Field: Hydrology  
Duration: April 2006 – May 2006  
Client/value: Ecotone Management Sdn Bhd (RM 3,000)
38. Title: Detailed EIA – Proposed development of Ulu Jelai Mixed Pumped Storage Hydroelectric Project at Cameron Highlands, Pahang.  
Field: Climate, Flora and Fauna  
Duration: Feb 2003 - Sept 2003  
Client: TNB Research Sdn Bhd  
value: RM 1.4 million  
Vot : BIP
39. Title: Lake Study in Malaysia  
Field: Hydrology, Water Quality  
Duration: Nov 2004-May 2005  
Client: National Institute of Hydraulic Study (NAHRIM)  
value: RM 49,800  
Vot No: BIP 63282
40. Title: Geological, geotechnical and hydrological assessment that lead to Landslide at Gunung Pulai, Johor  
Field: Hydrology, Forestry  
Duration: July- Sept 2002  
Client: The State Government of Johor

- value: RM 70,500  
 41. Title: Study on Pollution Prevention & Water Quality Improvement Program of Sg. Segget and Sg. Tebrau, Johor  
 Role: **Project Manager**  
 Field: Hydrology, Pollution loading, Non Point Source Pollution  
 Duration: Oct 2001 – Oct 2002  
 Client: Department of Environment Malaysia (DOE)  
 Value: RM 2.3 mil  
 42. Title: EIA for the proposed construction and completion of the Research Center for Fresh Water Fish at Glemi Lemi, Jelebu, Negeri Sembilan.  
 Field: Forest Resources  
 Duration: Sept 2000 – may 2001  
 Client/value: JKR (RM 150,000)  
 43. Title: Logging impact reduction in the Sungai Chereh Catchment, Kuantan, Pahang.  
 Field: Hydrology, forest conservation  
 Duration: October 1997  
 Client/value: Amanah Saham Pahang (ASPA)  
 44. Title: EIA for establishing diary farm at Sintuk, Kedah.  
 Field: Hydrology, sedimentation, water quality.  
 Duration: 1989  
 Client/value: Perangin Diary Farm  
 Value: FRIM

#### b) International Clientele (6 projects)

- 1 Title: Water Management and Flood Mitigation at Sekayu, Sumatra Sumatera Selatan Indonesia  
 Role: **Project Leader**  
 Field: Flood management and water management  
 Duration: Mar 2016 – Jun 2016  
 Client: PT Guthrie Pecconina Indonesia  
 Value : RM150,323  
 2 Title: Towards Economic Resilience in the Pacific and Southeast Asia: Reducing Risk Loss & Damage in the Tourism and Agriculture Sectors from Extreme and Slow-Onset Events through Improved Assessments and Education.  
 Role: Project Reviewer  
 Field: Climate Change Impacts  
 Duration: Sep 2015 – Feb 2016  
 Client: UNESCO  
 Value : USD 5000

- 3 Title: Study on heavy metals at South East Pahang Peat Swamp Forest Hydrology,  
 Role Project Leader  
 Field: Water Quality  
 Duration: Dec 2004-Jun 2005  
 Client: UNDP/FRIM/Forestry Department Malaysia;  
 Value : RM 47,800  
 Vot UTSB VOT 343
- 4 Title: Sustainable Management of Peat Swamp Forest  
 Role **Project Leader**  
 Field: Hydrology, Water Quality  
 Duration: Feb 1997- Jul 1998  
 Client: Danish Cooperation for Environment and Development (DANCED)  
 Value : RM 95,000  
 Vot FRIM
- 5 Title: Hydrological studies at Sipitang, Sabah  
 Field: Technical advisor (hydrology)  
 Duration: May 1990- Apr 1992  
 Client: World Bank and Sabah Forest Industry  
 Value : RM 30k  
 Vot FRIM
- 6 Title: The Economic Case for Natural Forest Management.  
 Field: Hydrology, sedimentation  
 Duration: 1992-1994  
 Client: International Tropical Timber Organization (ITTO)  
 Value : RM 950,000  
 Vot FRIM

#### **K) KEYNOTE/INVITED/IMPORTANT PRESENTATION**

##### **Keynote Speaker (Total 14)**

1. 20 Apr 2021 **Keynote Speaker**, New Southbound – New Vision, International Collaboration in Innovation of Water Affairs organised by Ministry of Science and Technology (MOST), Taiwan.
2. 9 Sep 2020 **Keynote Speaker**, Sustainable Water Management: Between Desire and Disparity. Webinar on Challenges of Water Resources Management in the New Normal organised by Universiti Islam Lamongan.
3. 13&14 Jun 2020 **Keynote Speech**, Flood Damage Estimation. Virtual Conference on Water and the Environment organised by Chang'an University, China.

4. 3 Oct 2018 **Keynote Speaker** at International Conference on Civil & Environmental Engineering 2018. Organised by UTAR, UST and CDRR. Issues in Upscaling Plot to Findings to Basin Scale Application in Hydrological Analysis and Modelling
5. 15 Aug 2018 **Plenary Speaker** at AASSA-Akademi Sains Malaysia Conference on Water-Borne Infectious Diseases. Innovation to Support Water Quality. Kuala Lumpur 15-16 Aug 2018.
6. 26 July 2018 **Plenary Speaker** at ASEAN Conference and Exposition on Disaster Risk Management and Climate Change Adaptation 2018. Innovative Decision Making for Sustainable Management of Water in Developing Countries. Batangas State University, Batangas City, Philippines
7. 24 Oct 2017 **Keynote Spaker**, Landuse and Climate Change Impacts on Water Resources at the 5<sup>th</sup> International Conference on Environmental Engineering. Surabaya, Indonesia 24-25 Oct 2017.
8. 23 Oct 2017 **Keynote Speaker** “Kesan Guna Tanah ke Atas Banjir Besar” at Seminar Kebangsaan Bencana Alam ke IV, Universiti Malaysia Sabah. 23-24 Oct 2017.
9. 5 Oct 2017 **Keynote Speaker**, Hydrological Analysis and Modelling: Challenges in Linking Plot to Basin Scale Processes at International Conference on Geomatics & Geospatial technology (GGT) 2017, 4&5 Oct 2017, Kuala Lumpur.
10. 3 July 2017 **Keynote Speaker**. *The Way Forward for Sustainable Water Management in the Developing Countries*. Water Cycle, Marine Environment, and Disaster Management Symposium. Kumamoto University, Japan
11. 23 Sep 2016 **Keynote Speaker** at Kyushu Water Forum 2016: *Water Management in Southeast Asian Region: Challenges and Opportunities*. Fukuoka Japan. 23&24 Sept.
12. 24 Nov 2015 **Keynote Speaker**, Landuse and Major Flood: Relooking at the options. At International Conference on Water Resources 2015. Langkawi.
13. 12 Nov 2015 **Plenary Speaker** at Internatonal Workshop on Nanocomposite Materials for Photocatalytic Degradation of Pollutants: Advanced Opportunities for New Applications. The needs for innovative approach for meeting future water demand. Impiana Hotel, Kuala Lumpur
14. 15 May 2014 **Keynote speaker** at 1<sup>st</sup> National Conference on Non Point Sources Pollution, Kuala Lumpur. 15&16 May



15. 17 Jun 2013 **Keynote Speaker**, on “Water Cooperation”. Seminar on Geospatial Disaster and UNESCO-HELP Basin: Water Co-operation, Security and Geohazards. Putrajaya.
16. 23 Jun 2010 **Keynote Speaker**: *World Championship for Clean River*. Persidangan Kebangsaan Hidrologi Alam Sekitar. 23&24 Jun 2010, UTHM

#### Invited Speaker (Total 79)

1. 18 Nov 2020 **Guest Speaker** on Flood Risk Mitigation at Universiti Jember, Indonesia
2. 2 Sep 2019 **Invited Speaker** at National Conference on Stormwater Management, Organised by Malaysian Stormwater Organization. The Light Hotel, Penang,
3. 21 Aug 2019 **Invited Speaker**, Preparing, Writing & Publishing Article for Highly Ranked Journal. ITS, Surabaya.
4. 7 Mar 2019 **Invited Speaker**, Bengkel Perkongsian Amalan Terbaik Penilaian Geran FRGS, AKEPT, Sepang. Kementerian Pendidikan Malaysia
5. 2 Dec 2018 **Invited Speaker**, Kelestarian Air Negeri Johor, Bengkel Kelestarian Alam Negeri Johor, Organised by Muar Local Authority.
6. 15 Nov 2018 **Invited Speaker**, Conference on Flood Catastrophes in a Changing Environment 2018. 16&17 Nov. Modelling of Historical and Future Floods in Terengganu River Basin.
7. 16 Oct 2018 **Invited Speaker**, Sharing the best practices in the evaluation of FRGS grant, Organised by the Ministry of Education, Putrajaya
8. 10 Jul 2018 **Invited speaker** at Konvensyen Pendidikan Kebangsaan Kali Ke 24. Harapan dan Cabaran Pembinaan Generasi Baharu. Subang Jaya, organised by Ministry of Education Malaysia & Gabungan Majlis Guru Besar Malaysia.
9. 5 Mar 2018 **Invited Speaker**. Hydrological Impacts from Climate Change and Landuse Perspective. International Seminar on The Development and Management of Water Resources. Universitas Islam Muhammadiyah Makassar (UNISMUH).
10. 12-14 Oct 2017 **Invited Resource Person** by Global Water Partnership (GWP) (representing South East Asian Region) to review Integrated Water Resources Management ToolBox Teaching Manual. Hohai University, Nanjing China. 12-14 Oct
11. 6 Oct 2017 **Invited Speaker**, Hydrological Impacts of Landuse on Major Flood at National Conference on STI for DRR, UKM, Bangi 5&6 Oct 2017.

12. 25 Sep 2017 **Invited Speaker.** Water Environment Resource Management in Malaysia: The History and Future of the Japan-Malaysia Research Collaboration. Tsukuba Global Science Week 2017. 25-27 Sep 2017. Tsukuba International Congress centre.
13. 12 Sep 2017 **Featured Speaker.** *Landuse and Climate Change Impact on Water Resources in Malaysia.* 7<sup>th</sup> IWA-ASPIRE Conference 2017.11 to 14 Sep 2017. KLCC Kuala Lumpur.
14. 7 Aug 2017 **Invited Speaker.** Simposium Kelestarian Air Negeri Johor, 2017. *Potensi Sumber Air Alternatif di Negeri Johor.* KSL, Johor Bahru
15. 24 May 2017 **Invited speaker** at Urban Meteorology and Climate Conference. *Prediction of Future Flood for Terengganu River Basin, Malaysia.* Organised by Asian Network for Climate Science and Tehnology. City University of Hong Kong. 24&25 May 2017
16. 22 Mar 2017 **Invited Speaker:** *Meteorological and landuse Influence on the 2014 Flood in Malaysia.* The 2nd Symposium on JASTIP Disaster Prevention, 22-23 Mar 2017, Kyoto University Uji Campus, Japan
17. 5 Oct 2016 **Invited Speaker** at National Forensic Civil Engineering Seminar 2016. *Landuse Impact on Major Flood.* Kuala Lumpur
18. 3 Oct 2016 **Invited Speaker** at Preconference Workshop on Geomatic & Spatial Technology, Istana Hotel KL. Flood Modelling
19. 26 Sep 2016 **Invited Speaker** at Japan Water Forum Communication Lounge: City Development and Water Problem.
20. 25 Ogos 2016 **Invited Speaker:** Water Related Disaster – The Way Forward. Bengkel Input Pakar Tempatan Untuk Pembangunan Pelan Strategik Pusat Kajian Bencana Alam, UMS. UMS, Sabah
21. 17 Nov 2015 **Invited Speaker** at Johor Water Forum 2015. Sumber Alternatif untuk Kelestarian Pengurusan Air.
22. 02 Nov 2015 **Invited speaker** for Newton Ungku Omar Project. Pengurusan Banjir di Malaysia. Malaka
23. 12 Oct 2015 **Invited Speaker** at APN/UNESCO Loss and Damage Assessment Workshop. University of South Pacific, Fiji.
24. 29 Jul 2015 **Invited Speaker** at International Conference on Disaster Risk Management. Langkawi
25. 28 May 2015 **Invited speaker** at Dialog Bencana Banjir. Bencana Banjir Besar; Laporan Kajian Forensik. Organized by National Council of Professor, PWTC.
26. 24 Apr 2015 **Invited speaker** at Water Malaysia 2015. Hydrological Impact of Landuse.
27. 23 Mar 2015 **Invited Speaker** at International Symposium on Multi-Hazard and Risk 2015. Hydrological and landuse: Influence on the Dec 2014 Kelantan flood. UTM, KL

28. 27 Feb 2015 **Invited Speaker** at Workshop on Extreme Weather & Flood: Preliminary Investigation on the Reent Flood in the East Coast of Malaysia. Universiti Malaya, KL.
29. 5 Jan 2015 **Invited speaker:** Watershed Services of forest at Short Course on Valuating Regulating Ecosystem Services in South East Asia by EEPSEA 5-8 January 2015
30. 21 June 2014 **Invited Speaker** Dialog Utara Majlis Professor Negara. "*Air Sumber yang tidak dihargai*". Universiti Utara Malaysia.
31. 29 Aug 2013 **Invited speaker:** *Challenges in upscaling plot results to watershed levels assessment of hydrological impacts*. International Symposium on Digital Earth 2013, Kuching, Sarawak. 27-30 Aug
32. 22 Aug 2013 **Invited lecture** on Hydrology for Non Hydrologist. Asia Core Program under Japanese Society for the Promotion of Science. Universiti Malaya.
33. 3 Jul 2013 **Invited Speaker.** Penmanfaatan Air dalam Tamadun Islam. Muzakarah Pakar Air. Institut Kefahaman Islam. Malaysia
34. 18 Apr 2013 **Invited Speaker** on Water Sustainability – River Rehabilitation in Developing Countries. International Symposium on Resilience to Climate in Southeast Asia, University of Reading (M' sia)
35. 27 Nov 2012 **Invited Speaker** on Water Education and Awareness, MyIWRM Forum, Putrajaya
36. 28 May 2012 **Invited Speaker:** *Quantifying Water Demand Management for the Environment*. Strategic Consultative II by Akademi Sains Malaysia.
37. 22 Marc 2011 **Invited Speaker,** ASM's study Mega science Framework for Water to the Minister of KeTHHA and Chief Secretary of MOSTI
38. 14 Dec 2011 **Invited Speaker,** Science and Technology Needs for Sustainable Water Resources Management in Malaysia. Training Course for Researchers in Islamic Countries. Akademi Sains Malaysia.
39. 28 Apr 2011 **Invited Speaker:** *River Rehabilitation: A Case Study for Sungai Senai, Johor*. International Erosion Control Association (IECA) Conference, Kuala Lumpur.
40. 6 Apr 2011 **Invited Speaker:** *Climate Change: Threats to Operators*, Water Malaysia Conference and Exhibition, Kuala Lumpur. Malaysia Water Association. 5&6 Apr
41. 16 Feb 2011 **Invited Speaker,** Challenges and opportunities in water sector in Malaysia. Water@UTM, Kuala Lumpur
42. 2 Dec 2010 **Invited Speaker,** Catchment wide approach for effective control of river pollution. Labuan, Sabah. Organised by LESTARI UKM, UNESCO-IHP

43. 2 Dec 2010 **Invited Speaker:** *Safe water, Healthy life and future challenges.* 2 Dec 2010, National Institute of Occupational Safety and Health (NIOSH)
44. 1-2 Nov 2010 **Invited Speaker,** Workshop on Developing capacity of Government Officers for the Practical Implementation of Integrated Water resources Management. UKM, Bangi.
45. 18 May 2010 **Invited Speaker,** Workshop on River Buffer Zone Management in Malaysia. NAHRIM, Serdang
46. 1 Mac 2010 **Invited Speaker** for Pre Conference Workshop on water Management Issues and Application of River Quality Modelling in Integrated Catchment Management. 1 march 200. IWA/MWA/UTM
47. 4 Feb 2010 **Invited Speaker,** Pengurusan Air Secara Mampan Dalam Konteks Penerokaan Sumber Air Alternatif dan Keseimbangan Alam Sekitar. Simposium Pengurusan air Mampan – Mendepani Krisis Bekalan Air. Majlis Professional Air dan Teknologi Hijau.
48. Dec 2009 **Invited Speaker,** Asas Fiqh untuk mengukuhkan pelestarian alam sekitar, Johor Bahru
49. 2 Nov 2009 **Invited Speaker.** Non-Point Source Pollution: Time for Stronger Actions. Simposium Pengurusan & Pengauditan Industri Air, Shah Alam 2-3 Nov . Jabatan Audit Negara
50. 12 Nov 2009 **Invited Speaker,** National Utilities Summit 2009. Title: Catchment Wide Approach for Sustaining Water Resources organised by ASLI
51. May 2009 **Invited Speaker,** River rehabilitation. Malaysia Water Conference, KL
52. Feb 2008 **Invited Speaker,** International Seminar on Climate Variability, Change and Extreme Weather Events – Towards Enhancing Scientific Understanding of Climate Variability and Climate Change in Maritime Continent, 26-27 February 2008, Bangi
53. 13 Nov 2007 **Invited Speaker,** Integrated Water Resources Management. Water Management Courses Organised by Badan Kawal Selia Air, Johor
54. 10 Sept 2007 **Invited Speaker,** Penipisan Ozon: Risiko kepada manusia dan bumi. Kuching, Sarawak. Invited by the Department of Environment.
55. 17 August 2007 **Invited Speaker,** Pengurusan Sumber Air Mapan. Invited by the Department of Irrigation and Drainage in Conjunction with Water Awareness Camp.
56. 27 June 2007 **Invited Speaker,** River rehabilitation –case study for Sg. Segget and Tebrau. Short course for staff of the Department of Environment

57. 28 June 2007 **Invited Speaker**, Integrated River Basin Management. Short course for staff of the Department of Environment
58. 12 April 2007 **Invited Speaker**, Pegurusan Air Secara Mapan; Realiti dan Cabaran. Kem Kesedaran Pengurusan Air. Kuala Terengganu
59. 5 April 2007 **Invited Speaker**, River Rehabilitation in Wilayah Pembangunan Iskandar – the Way Forward. Presented to Management of United Engineering Malaysia. Kuala Lumpur.
60. 13-14 March 2007 **Invited Speaker**, Workshop on Innovative Approaches for Sustainable Water Resources Management, Kuala Lumpur
61. 25 Sept 2006 Presentation at Drainage and Irrigation Department on Man-made wetlands
62. 7 Feb 2006 **Invited Speaker**, Upscaling Hydrological Impacts from point to regional scale. National Institute for Environmental Studies, Tsukuba, Japan
63. 7 Dec 2005 **Invited leture**, Reviewing Journal Article: Editor’s Experience. Workshop on Reviewing Journal Article, Pulau Spring, Johor
64. Oct 2005 **Invited Leture**, Preparation of Macro-EIA for Forestry. Presentation at Pahang Forestry Department
65. 9&10 August 2005 **Invited Leture**, Lake Classification & Non-Point Source Control at Training Course on Lake Management, UTM KL.
66. May 2005 **Invited Speaker**, Non-Point Sources Control. At River Rehabilitation Course at ITS, Surabaya, Indonesia
67. 19-20 April 2005 **Invited Speaker**, Hydrology and Non-point sources pollution at Specialized Workshop on River Rehabilitation. BATC, KL
68. 11&12 May 2004 **Invited Leture**, Hydrological consideration for Best Management Practices (BMP) in forestry and plantation. At FELDA Research, Sg Tekam Pahang
69. 6-7 Dec 2004 **Invited Leture**, Integrated Water Resources Management Courses. International Hydrology Program (Malaysia) at UTM, KL
70. 14 Oct 2004 **Invited Leture**, Pengurusan Sumber Air Secara Mampan. Seminar Pengurusan Air peringkat Sekolah at Sekolah Menengah Aminudin Baki, KL
71. May 2004 **Invited Leture**, Statistical Tool for Master and PhD Research. Facilitator SLAB, FKA, UTM
72. 24 March 2003 **Invited Leture** Introduction to water quality modeling – UTM, KL
73. March 2002 **Invited Lecture**, Application of Evapotranspiration Models. At Intensive Course in Hydrology, UTM, JB
74. 25-30 March 2002 **Invited Leture** Intensive Course in Hydrology, International Hydrology Program (Malaysia)
75. 18 Oct 2001 **Invited Leture** Nutrient Cycle in Forested Catchment. At Kyoto University, Department of Environmental Engineering

76. Nov 1999 **Invited Leture** Hydrological impacts of upstream activities on catchment management. IPASSA Colloquium.
77. Dec 1999 **Invited Lecture**, Hutan dan Sumber Air. Ceramah kesedaran kepada kelab rekreasi Johor
78. 1999 **Invited Leture** One Day Seminar on Environment, University of Malaya
79. 22-27 Jun 1998 Invited Leture Kursus Pencegahan Kebakaran Hutan
80. Sept 1998 Invited Leture Recent Trend in Forest Hydrological Research in the Tropics. Forestry and Forest Product Research Institute, Tsukuba, Japan.

### On TV/Radio

1. 18 Aug 2020 **Tetamu Agenda Awani**. Kadar Penggunaan Air Rakyat Malaysia Tinggi? <http://www.astroawani.com/video-malaysia/agenda-awani-kadar-penggunaan-air-rakyat-malaysia-tinggi-1863329>
2. 1 Jan 2017 **Tetamu Astro Awani**, Dialog Pemikir Negara; Ancaman Banjir
3. 6 Feb 2016 **Tetamu Dialog Pemikir Negara Astro Awani**: Iklim, Banjir dan Pembangunan Lestari.  
<http://www.astroawani.com/videos/show/news/dialog-pemikir-negara-iklim-banjir-dan-pembangunan-lestari>
4. 6 Nov 2016 **Invited panelist** at Dialog Pemikir Negara on Astro Awani – Pengurusan Air di Malaysia.
5. 3 Dec 2015 **Tetamu Analisis Awani**. Pengurusan Krisis Air di Johor. Link [www.astroawani.com/.../analisis-awani-pengurusan-krisis-air-negeri...](http://www.astroawani.com/.../analisis-awani-pengurusan-krisis-air-negeri...)
6. 8 Jan 2015 **Tetamu Selamat Pagi Malaysia**, RTM TV 1. Strategi Pemulihan Bencana banjir
7. 26 Oct 2015 **Tetamu Astro Awani**, Pengurusan Air Secara Mampan.
8. 7 May 2014 **Guest to Bernama Radio 24** on Research University Impact to the Society
9. Aug 2014 **Tetamu, Hello on Two, RTM TV 2. Flood Conference**
10. 26 Dec 2014 **Tetamu, Astro Awani TV**
11. 21 Oct 2014 **Tetamu Astro Awani**, Bicara Pakar Majlis Professor Negara tentang isu banjir
12. 5 Jul 2013 **Tetamu Radio IKIM**, Pengurusan air menurut perspektif Islam
13. 18 Dec 2007 **Panel Hujah** Program TV9. Issue Air
14. 12 Oct 2009 **Tetamu Malaysia Hari ini**, TV3. Fenomena Iklim
15. April 1997 **Tetamu TV3**, Selamat Pagi Malaysia.

### As Forum Panelist

1. 20 Nov 2020 **Panelist**, Water Security. Organised by University of Malaya
2. 15 Nov 2020 **Panelist**, Sessi Perkongsian FB Live: How Should We Price Our Consultation Fee, Product and Contract Research?. Organised by FKE, UTM
3. 22 Apr 2020 **Panelist**, Webinar Hari Bumi 2020. Pengurusan Air Lestari – Menangani Perubahan Iklim. Organised by Ministry of the Environment and Water (KASA)
4. 26 Feb 2019 **Panelist**, Empowerment Through Mentorship Forum, UTM Skudai.
5. 6 Sep 2018 **Invited panellist** at MAMPAN Expert Forum: Towards a Flood Resilient Infrastructure in Malaysia- Current Issues, Challenges and Future Direction. Sunway Putra, KL
6. 18 Oct 2018 As a **Forum Moderator** on Challenges & opportunities to facilitate DRRM investment in Malaysia, organised by Japan-ASEAN Science, Technology and Innovation Platform (JASTIP) and MJIIT. Sama-sama Hotel, Sepang.
7. 24 Oct 2018 **Panelist** Roundtable Discussion. Penjajaran UTM dengan Agenda Pendidikan Malaysia Baharu. UTM, Skudai.
8. 2 Nov 2016 **Invited Panelist** at Asean-Based Watershed Model. JSPS Symposium, Kuala Lumpur
9. 4 July 2014 **Panelists** for NST-ASM Insight on *Malaysia's Water Future: Assessment of Challenges and Opportunities*. NSTP Theatre Hall, Kuala Lumpur
10. 22 March 2007 Panel, Forum Perdana Pesta Konvo UTM ke 38

### L) PUBLICATIONS

- **Citation: Scopus = 2002; Google Scholar = 3918; Research Gate = 2930**
- **H-Index; Scopus = 25; Research gate = 31; Google Scholar = 35; i10 Index = 93**
- **Editor**, Water Science and Technology (IWA journal, IF = 1.6) Feb 2013-May 2020
- **Editor**, Special Issue Hydrology Research
- **Associate Editor** of Water Science and Technology (IWA Journal, IF= 1.23) – 2008 to Jan 2013
- **Chief Editor** Malaysian Journal of Civil engineering (2004-2009)

#### a) ISI Journals (116 articles)

1. Lloyd Ling, Z. Yusop and J. L. Ling (2021) Statistical and Type II Error Assessment of a Runoff Predictive Model in Peninsula Malaysia. *Mathematics* 2021, 9, 812. <https://doi.org/10.3390/math9080812> (Q2)

2. Ahmad Basri S.A., Syed Zakaria S.A., A. Majid T., Yusop Z. (2021) Exploring awareness and application of disaster risk management cycle (DRMC) from stakeholder's perspective. *International Journal of Disaster Resilience in the Built Environment*, doi: 10.1108/IJDRBE-09-2020-0105
3. Lazim Z.M., Salmiati, Hadibarata T., Yusop Z., Nazifa T.H., Abdullah N.H., Nuid M., Salim N.A.A., Zainuddin N.A., Ahmad N. (2021) Bisphenol a removal by adsorption using waste biomass: Isotherm and kinetic studies. *Biointerface Research in Applied Chemistry*, 11 (1): 8467 – 84811. Doi: 10.33263/BRIAC111.84678481, ISN20695837
4. Zhang, Q and Yusop, Z (2021) Editorial: Flood Catastrophes in a Changing Environment. *Hydrology Research*, 52 (1): 1-3, doi: 10.2166/nh.2021.000. Q1
5. KV Annammala, NA Mohammad, D Sugumaran, LS Masilamani, YQ Liang, MH Jamal, Z Yusop, A.R.M. Yusoff, A Nainar (2021). Sediment clues in flood mitigation: the key to determining the origin, transport, and degree of heavy metal contamination. *Hydrology Research*. 52(1): 91-106. doi: 10.2166/NH.2020.119. Q1
6. Noor Suraya Romali, N.S and Z. Yusop (2021) Flood damage and risk assessment for urban area in Malaysia. *Hydrology Research*, doi: 10.2166/nh.2020.121. Q1
7. Tan, M. L., Juneng, L., Tangang, F. T., Samat, N., Chan, N. W., Yusop, Z., & Ngai, S. T. (2020). SouthEast asia HydrO-meteorological droughtT (SEA-HOT) framework: A case study in the kelantan river basin, malaysia. *Atmospheric Research*, 246 doi:10.1016/j.atmosres.2020.105155. Q1
8. Shukor, M. S. A., Yusop, Z., Yusof, F., Sa'adi, Z., & Alias, N. E. (2020). Detecting rainfall trend and development of future intensity duration frequency (IDF) curve for the state of kelantan. *Water Resources Management*, 34(10), 3165-3182. doi:10.1007/s11269-020-02602-8. Q1
9. Mohamad N.A., A. Nainar, K. V. Annammala, D. Sugumaran, M. H. Jamal and Z. Yusop (2020). Soil erosion in disturbed forests and agricultural plantations in tropical undulating terrain: *in situ* measurement using a laser erosion bridge method. *Journal of Water and Climate Change*. 11(4): 1032-1041. jwc2019063. <https://doi.org/10.2166/wcc.2019.063>
10. Ishak, S. N., Malek, N. A. N. N., Yusop, Z., Williams, C. D., Suhartono, S., & Syafiuddin, A. (2020). Evaluation of phase transformation behaviors of zeolite and antibacterial properties against gram-positive and -negative bacteria. *Journal of the Chinese Chemical Society*, doi:10.1002/jccs.202000046
11. Syafiuddin, A., Fulazzaky, M.A., Salmiati, S. M., Roestamy, K. Sumeru & Z. Yusop (2020) Sticky silver nanoparticles and surface coatings of different textile fabrics stabilised by *Muntingia calabura* leaf extract. *SN Applied Science*. 2, 733 (2020). <https://doi.org/10.1007/s42452-020-2534-5>
12. Romali, N.S. and Z. Yusop (2020) Establishment of Residential Flood Damage Function Model for Kuantan, Malaysia. *International Journal of GEOMATE*. 19 (71): 21 – 27. doi.org/10.21660/2020.71.9144



13. Lloyd, L, Z. Yusop and M. F. Chow (2020) Urban Flood Depth Estimate with a New Calibrated Curve Number Runoff Prediction Model. *IEEE Access*, 8: 10915-10923. doi 10.1109/ACCESS.2017.
14. Lloyd L., Z. Yusop, W-S. Yap, W. L. Tan, M. F. Chow and J. L. Ling (2020) A Calibrated, Watershed-Specific SCS-CN Method: Application to Wangjiaqiao Watershed in the Three Gorges Area, China. *Water*, 12(1): 1-14. doi:10.3390/w12010060
15. Thanalechumi, P, Yusoff, A.R.M., and **Yusop**, Z. (2020) Novel Electrochemical Sensor Based on Nylon 6,6-Modified Graphite HB Pencil Electrode for Chlorothalonil Determination by Differential Pulse Cathodic Stripping Voltammetry. *Water, Air, and Soil Pollution*. 231 (5): , Article number 189. **DOI:** 10.1007/s11270-020-04536-8
16. Thanalechumi P., A. R Mohd Yusoff and Z. Yusop (2019).Green sensors for voltammetric determination of lindane in water samples using bare and nylon 6,6 modified pencil electrodes. *Analytical Methods*, 11: 4899-4909. Doi: 10.1039/C9AY01589B 1.
17. Hui-Mean, F., F. Yusof, Z. Yusop, S. Jamaluddin (2019) Trivariate copula in drought analysis: a case study in peninsular Malaysia. *Theoretical and Applied Climatology*. 138. 657-671. doi.org/10.1007/s00704-019-02847-3
18. Thanalechumi, P. A.R. Mohd Yusoff and Z Yusop (2019) Nylon 6,6 modified screen printed carbon electrodes as electrochemical sensors for rapid chlorothalonil determination in water samples using differential pulse cathodic stripping voltammetry, *Journal of Environmental Science and Health, Part B*, 1-9.
19. Asadsangabifard, M., Z. Ismail, Z. Yusop, Z.C. Ong, N. S. Mohd, P Roushenas, J.H. Tam (2018) Temporal and spatial variation of grey water (2018) properties from commercial and residential catchments. *Desalination and Water Treatment*, 132: 188-1996. doi:10.5004/dwt.2018.23017 (Q2, IF=1.39)
20. Mohd Zahari, A., C. W. Chuo, P. Sathishkumar, A. R. Mohd Yusoff, F. L. Gu, N. A. Buang, L. W. Jye, R. J. Gohari, Z. Yusop. (2018) A reusable electrospun PVDF-PVP-MnO<sub>2</sub> nanocomposite membrane for bisphenol A removal from drinking water. *Journal of Environmental Chemical Engineering*. 6(5): 5801-5811. <https://doi.org/10.1016/j.jece.2018.08.073> (Q1, IF =3.74)
21. Muhamad, M.S., N. Hamidon, M. R. Salim, Z. Yusop, W. J. Lau, T. Hadibarata (2018) Response Surface Methodology for Modeling Bisphenol A Removal Using Ultrafiltration Membrane System. *Water Air Soil Pollution*, 229: 222. <https://doi.org/10.1007/s11270-018-3875-1> (Q2, IF=1.72)
22. Paramalinggam, T., A. R. Mohd Yusoff, M. S. Qureshi, Z. Ali Shah, P. Sathishkumar, Z. Yusop, M. Khalid, F. M. Khokhar (2018) Determination of Paraquat Dichloride from Water Samples Using Differential Pulse Cathodic Stripping Voltammetry. *Russian Journal of Electrochemistry*. 54(12): 1155-1163. Springer. doi.org/10.1134/S1023193518140069
23. Md Lani, N H., A. Syafiuddin , Z. Yusop, U. Adam , M. Z. Mat Amin (2018) Performance of small and large scales rainwater harvesting systems in commercial

- buildings under different reliability and future water tariff scenarios. *Science of the Total Environment*, 636: 1171-1179. doi.org/10.1016/j.scitotenv.2018.04.418. (IF=5.1, Q1)
24. Nor Khorihah Eliyasa Mohd Khorihah, N.K.E., T. Hadibarata, M. S. Elshikh, A. A. Al-Ghamdi, Salmiati, and Z. Yusop (2018) Triclosan removal by adsorption using activated carbon derived from waste biomass: Isotherms and kinetic studies. *Journal of the Chinese Chemical Society*, <https://doi.org/10.1002/jccs.201700427> (IF=0.935, Q3).
  25. Md Lani, Z. Yusop, A. Syafiuddin (2018) A review of rainwater harvesting in Malaysia: Prospects and challenges. *Water*, 10, 506, doi: 10.3390/w10040506. (IF 1.8, Q2)
  26. Noguchi, S., J.N. Negesshi, Z. Yusop, Y Kosugi, S.A. Shamsuddin & M. Tani (2018) Throughfall at an abandoned skid trail in a tropical rain forest in Peninsular Malaysia. *Japan Agricultural Research Quarterly*. 52(1): 63-75. (Q3, IF=0.53)
  27. Saadon, S. A., Salmiati, A. R. Mohd Yusoff, Z. Yusop, S. Azman, Davin U. and A. Syafiuddin (2018) Heated laterite as a low-cost adsorbent for arsenic removal from aqueous solution. *Malaysian Journal of Fundamental and Applied Sciences*, 14 (1) : 1-8.
  28. Nojumuddin, N.S., F. Yusof and Z. Yusop (2018) Determination of Minimum Inter-event Time for Storm Characterization in Johor, Malaysia. *Journal of Flood Risk Management*. 11(S2): S687-S699. DOI: 10.1111/jfr3.12242 (IF= 3.11, Q1)
  29. Mean, F. H., Z. Yusop & F. Yusof (2018) Drought analysis and water resource availability using standardised precipitation evapotranspiration index. *Atmospheric Research*. 201: 102-1015. doi.org/10.1016/j.atmosres.2017.10.014. Q1
  30. Wong, C.L., Z. Yusop, Venneker, R., & S. Uhlenbrook, (2018) Effects of Topographic Heterogeneity on Coarse Resolution Grid-Based Runoff Simulation—Assessment for Three River Basins in Peninsular Malaysia. *Environmental Modeling and Assessment*. 229(7) 277-288. doi.org/10.1007/s10666-017-9576-0. Q2
  31. Romali, N.S., Z. Yusop, A.Z. Ismail (2018) Application of HEC-RAS and Arc GIS for floodplain mapping in Segamat town, Malaysia. *International Journal of GEOMATE*, 14(43): 125-131 (IF-0.7, Q3)
  32. Wong, C-L, Z. Yusop, T. Ismail, T. (2018) Trend of daily rainfall and temperature in Peninsular Malaysia based on gridded data set. *International Journal of GEOMATE*. 14 (44): 65-72 (IF=0.7. Q3)
  33. Reddy, A. V. B., Z. Yusop, J. Jaafar, N. H. Jamil, Z. A. Majid, A. Aris (2018) Development and Validation of Capillary Electrophoresis Method for Simultaneous Determination of Six Pharmaceuticals in Different Food Samples Combining On-line and Off-line Sample Enrichment Techniques. *Food Analytical Methods*. doi.org/10.1007/s12161-017-1024-x Q2
  34. Yakubu, M. L. and Z. Yusop (2017) Adaptability of Rainfall Simulator As A Research Tool On Urban Sealed Surfaces – Review. *Hydrological Science Journal*. 62(6): 996-1012. DOI: 10.1080/02626667.2016.1267355 (IF= 2.22, Q1)
  35. Thanalechumi, P., A.R. Mohd Yusoff, Z. Yusop (2017) A simple voltammetric determination of methosulfuron-methyl in water samples using differential pulse cathodic stripping voltammetric. *Journal of Pesticide Science*. 42(2): 39-44.

- 10.1584/jpestics.D16-086. Q3
36. Paramalinggam Thanalechumi P, A. R. Mohd Yusoff, M. S. Qureshi, Z A Shah, P. Sathishkumar, Z Yusop, and F. Mohammad Khokhar (2018) Determination of Paraquat Dichloride from Water Samples Using Differential Pulse Cathodic Stripping Voltammetry. *Russian Journal of Electrochemistry*, 54(12): 1155–1163. DOI: 10.1134/S1023193518140069
  37. Suhaila J. and Z. **Yusop** (2018) Trend analysis and change point detection of annual and seasonal temperature series in Peninsular Malaysia. *Meteorology and Atmospheric Physics*. 130(5): 565-581. DOI: 10.1007/s00703-017-0537-6. Q3
  38. Chow, M.F. and Z. **Yusop** (2017) Quantifying the quality and sampling time of oil and grease in urban stormwater runoff. *KSCE Journal of Civil Engineering*, 21(4): 1087-1095. DOI: 10.1007/s12205-016-0304-0. Q2
  39. Fai, C.M., Z. **Yusop** (2017) Determination of stormwater first flush treatment strategies at tropical urban catchments. *Desalination and Water Treatment*. 79: 196-203. DOI: 10.5004/dwt.2017.20809. Q2
  40. Reddy, A.V.B., Z. **Yusop**, J. Jaafar, A. Aris, Z. Abdul Majid, Z. (2017). A simple, selective, and sensitive gas chromatography–mass spectrometry method for the analysis of five process-related impurities in atenolol bulk drug and capsule formulations. *Journal of Separation Science*, 40 (15): 3086-3093. DOI: 10.1002/jssc.201700252. Q2
  41. Reddy A. V. B. Reddy, Z. **Yusop**, J. Jaafar, A. Aris and Z. A. Majid (2017) Simulation of a conventional water treatment plant for the minimization of new emerging pollutants in drinking water sources: process optimization using response surface methodology. *RSC Advances*, 2017(7): 11550-11560. Q1
  42. Naubi, I., N.H. Zardari, S.M. Shirazi, N.A. Roslan, Z. **Yusop**, M.R. Mohd Hanifah (2017) Ranking of Skudai River Sub-Watersheds from Sustainability Indices – Application of Promethee Method. *International Journal of Geomate*, 12 (29): 124-131. Q3
  43. Ibrahim, N.F., N. H. Zardari, S. M. Shirazi, M. R. Mohd Haniffah, S. Mat Talib Z. **Yusop**, S. M. A. Mohd Yusoff (2017) Identification of Vulnerable Areas to Floods In Kelantan River Sub-Basins by Using Flood Vulnerability Index. *International Journal of GEOMATE*, 12(29): 107-114. Q3
  44. Jasni, M.J.F, P. Sathishkumar, S. Sornambikai, A. R. Mohd Yusoff, F. Ameen, N. A. Buang, M. R. Abdul Kadir and Z. **Yusop** (2017) Fabrication, characterization and application of laccase–nylon 6,6/Fe<sup>3+</sup> composite nanofibrous membrane for 3,3'-dimethoxybenzidine detoxification. *Bioprocess and Biosystems Engineering*. 40(2): 191-200. Q2
  45. Tan, M. L., A. L. Ibrahim, P. Cracknell, Z. **Yusop** (2017) Changes in precipitation extremes over the Kelantan River Basin, Malaysia. *International Journal of Climatology*. 37(10): 3780-3797. 10.1002/joc.4952. Q1

46. Tan, M. L., A. L. Ibrahim, Z. **Yusop**, V. P. Chua, N. W. Chan (2016) Climate change impacts under CMIP5 RCP scenarios on water resources of the Kelantan River Basin, Malaysia. *Atmospheric Research*, 189: 1–10 **DOI:** 10.1016/j.atmosres.2017.01.008. Q1
47. Wong, C.L. J. Liew , Z. **Yusop** , T. Ismail , R. Venneker and S. Uhlenbrook (2016) Rainfall Characteristics and Regionalization in Peninsular Malaysia Based on a High Resolution Gridded Data Set. *Water*, 8 (11),500; doi doi:10.3390/w8110500. IF = 1.832, Q2
48. Mohamad A. Fulazzaky, A. Heryansyah, M. H. Solaiman, Z. **Yusop** (2017). A water balance approach for assessing the potential source of water in Dohuk Dam for agricultural, domestic and tourism purposes. *Water Policy*. Available Online 11 October 2016, wp2016016; **DOI: 10.2166/wp.2016.016. Q2**
49. Vijaya Bhaskar R. A., Z. **Yusop**, J. Jaafar, Y. V. Manohara Reddy, A. Aris, Z. Abdul Majid, J Talib and , G. Madhavi (2016) Recent progress on Fe-based nanoparticles: Synthesis, properties, characterization and environmental applications. *Journal of Environmental Chemical Engineering* 4 (2016) 3537–3553. Q1
50. Reddy, AV.B, Z. **Yusop**, J. Jaafar, V. Madhavi & G. Madhavi (2016) Advance in drug discovery: Impact of genomics and roles of analytical instrumentation. *Current Drug Discovery Technology*, 13: 211-224. Q2
51. Tan, W.L, F. Yusof & Z. **Yusop** (2017) Subseasonal to multidecadal variability of northeast monsoon daily rainfall over Peninsular Malaysia using a hidden Markov model. *Theoretical and Applied Climatology*. 129(1-2): 577-586. DOI 10.1007/s00704-016-1795-9 (Q2, IF=2.02).
52. Vijaya Bhaskar R. A., Z. **Yusop**, J. Jaafar, A. Aris, Z. Abdul Majid, K. Umar and J. Talib (2016) Simultaneous determination of three organophosphorus pesticides in different food commodities by gas chromatography with mass spectrometry. *Journal of Separation Science*. 39(12): 2276-2283. DOI: 10.1002/jssc.201600155. Q2
53. Suhaila, J. and Z **Yusop** (2017) Spatial and temporal variabilities of rainfall data using functional data analysis. *Theoretical and Applied Climatology*. 129(1-2): 229-242. DOI: 10.1007/s00704-016-1778-x (IF= 2.02, Q2)
54. Beheshti, Z., M. Firouzi, S.M. Shamsuddin, M. Zibarzani, Z. **Yusop** (2016) A new rainfall forecasting model using the CAPSO algorithm and an artificial neural network. *Neural Computing and Applications*. 27 (8): 2551–2565. Q2
55. Muhamad, M. S., M. R. Salim, W. J. Lau, Z. **Yusop** (2016). A review on bisphenol A occurrences, health effects and treatment process via membrane technology for drinking water. *Environmental Science and Pollution Research*. Pp 1-19. Doi 10.1007/s11356-016-6357-2 (IF=2.83). Q2
56. Askari, L. L. M., & **Yusop**, Z. (2016). Performance of two new empirical equations compared to polynomial, exponential, power and logarithmic function for modelling low flow and high flow discharges. *ARP Journal of Engineering and Applied Sciences*, 11(4), 2372-2379. Q3
57. Muhamad, M. S., M. R. Salim, W. J Lau, T. Hadibarata & Z **Yusop** (2016) Removal of Bisphenol A by Adsorption Mechanism of PES-SiO<sub>2</sub> Composite Membranes. *Environmental Technology*. 37 (15): 1959-1969. (IF=1.56, Q2)
58. Mohd Aziz, M.K.B., F. Yusof, Z. Mohd Daud, Z **Yusop**, M. A. Kasno (2016) Optimal

- Design of Rain Gauge Network in Johor By Using Geostatistics and Particle Swarm Optimization. *International Journal of GEOMATE*, 11( 25): 2422-2428. (IF=1.2, Q3)
59. Muniandy, J.M., Z. **Yusop** and Muhamad Askari (2016) Evaluation of reference evapotranspiration models and determination of crop coefficient for *Momordica charantia* and *Capsicum annum*. *Agricultural Water Management*, 169: 77-89 (Q1)
  60. Baharim, N.B, Z. **Yusop**, I, Yusoff, W. Z. Wan Muhd Tahir, M. Askari, Z. Othman, M.R Zainal Abidin (2016) The relationship between heavy metals and biomass properties in Polymictic Lake. *Sains Malaysiana*, 45(1): 43-53. (Q3, IF = 0.55)
  61. Harisaweni, Z. **Yusop** and F. Yusof (2016) The use of BLRP Model for Disaggregating Daily Rainfall Affected by Monsoon in Peninsular Malaysia. *Sains Malaysiana*, 45(1): 87-97 (Q3, IF= 0.55)
  62. Chow M.F, Z. **Yusop** & Fang Yenn Teo (2016) Evaluation of stormwater runoff quality during monsoon and inter-monsoon seasons at tropical urban catchments. *International Journal of River Basin Management*. 14(1): 75-82. DOI:10.1080/15715124.2015.1082479. Q2
  63. Yakubu, M.L, Z. **Yusop** and M. A. Pulazzaky (2016) The Influence of Rain Intensity on Raindrop Diameter and the Kinetics of Tropical Rainfall: A Case study of Skudai, Malaysia. *Hydrological Sc Journal*. 61(5): 944-951. (IF=2.182, Q1). DOI: 10.1080/02626667.2014.934251
  64. Vijaya Bhaskar R. A., Z. **Yusop**, J. Jaafar , A. Aris, Z. A. Majid, K. Umar, J. Talib (2016). Development and validation of a selective, sensitive and stability indicating UPLC–MS/MS method for rapid, simultaneous determination of six process related impurities in darunavir drug substance. *Journal of Pharmaceutical and Biomedical Analysis*. 128; 141–148. (IF=2.9, Q1/Q2)
  65. Roushenasa, P., Z. **Yusop**, Z. Majidnia, R. Nasrollahpour (2016) Photocatalytic degradation of spilled oil in seawater using maghemite Nanoparticles. *Desalination and Water Treatment*, 57(13): 5837-5841. <http://dx.doi.org/10.1080/19443994.2015.1005149>. IF=1.272, Q2
  66. Tan, Leong, D. L. Ficklin, B. Dixon A. L. Ibrahim, Z. **Yusop**, V. Chaplot (2015) Impacts of DEM resolution, source, and resampling technique on SWAT-simulated streamflow. *Applied Geography*, 63: 357-368. doi.10.1016/j.apgeog.2015.07.014
  67. Tan, M. L., A. L. Ibrahim, Z. **Yusop**, Z. Duan and L. Ling (2015) Impacts of land-use and climate variability on hydrological components in the Johor River basin, Malaysia. *Hydrological Science Journal*, DOI:10.1080/ 02626667.2014.967246. (Q1)
  68. Yusof, F., Lee M. Yung, Z. **Yusop** (2015) Tropical Daily Rainfall Amount Modelling using Markov Chain Mixed Exponential (MCME). 74(11): 153-163.
  69. Baharim, N. B., Z. **Yusop**, W. Z. Wan Muhd Tahir, I. Yusoff; Muhamad Askari, Z. Othman and M. R. Zainal Abidin (2015) Multivariate analysis on heavy metals distribution in tropical reservoir. *Research Journal of Applied Sciences, Engineering and Technology*. 2015;9(11):916-921. Q3
  70. Nojumuddin, N. S., F. Yusof, Z. **Yusop** (2015) Identification of Rainfall Patterns in Johor. *Applied Mathematical Sciences*, Vol. 9, 2015, no. 38, 1869 – 1888. Q3

71. Zardari, N.H, S. M. Shirazi, Z. **Yusop**, I. N. and M. A. Mangrio (online first) A comparison of current and design operational efficiencies of scavenger wells in lower Indus Basin of Pakistan and possibility of upcoming problem. *Arabian Journal of Geosciences*, 8 (10): 8669–8680. doi.org/10.1007/s12517-015-1851-2. (IF=1.15, Q2)
72. Zainab M.L., Tony H., M.H Puteh, Z. **Yusop** (2015) Adsorbition characteristics of Bisphenol A onto low-cost material in aqueous solution. *Water, Air & Soil Pollution*, 226 (3):1-11. Doi 10.1007/s11270-015-2318-5. (Q2)
73. Zardari, N. H., Z. **Yusop**, S. M. Shirazi, N. A. B. Rosla (2015) Prioritization of Farmlands in a Multicriteria Irrigation Water Allocation: Promethee and Gaia Applications. *Transactions of the ASABE*, 58(1): 73-82. ISSN 2151-0032 DOI 10. Q2
74. Chow, M. F., Z. **Yusop** and I. Abustan (2015) Relationship between sediment build-up characteristics and antecedent dry days on different urban road surfaces in Malaysia. *Urban Water Journal*, 12(3): 240-247. Q2
75. Ali H., A. Yasreen, Z. **Yusop** and M. Kashefizadeh (2015) Weak imposition of essential boundary conditions in isogeometric analysis of depth average advection dispersion equation. *Journal of Applied Science*, 15(2): 184-194. Q4
76. Shirazi, S. M., Z. **Yusop**, N. H. Zardari and Z. Ismail (2014) Effect of Irrigation Regimes and Nitrogen Levels on the Growth and Yield of Wheat. *Advances in Agriculture*. Volume 2014, Article ID 250874, 6 pages. doi.org/10.1155/2014/250874.
77. Shirazi S. M., N. H. Zardari, Z. **Yusop**, Z. Ismail, F. Othman (2014) Performance of Wheat Crop under Different Irrigation Regimes and Nitrogen Levels. A Field Experiment. *Journal of Environmental Protection and Ecology*. 15 (3): 973–982
78. Shirazi S. M., N. H. Zardari, , Z. **Yusop**, Z. Ismail (2014) Groundwater Quality Assessment for Potential Source of Irrigation at Karimganj Basin in Bangladesh. *Journal of Environmental Protection and Ecology*. 15(3): 860–869 (2014)
79. Wirasnita, R., T Hadibarata, ARM Yusoff, Z. **Yusop** (2014) Removal of Bisphenol A from Aqueous Solution by Activated Carbon Derived from Oil Palm Empty Fruit Bunch *Water, Air, & Soil Pollution*. 225: 2148- Doi 10.1007/s11270-014-2148-x
80. Tan, M. L, D. L. Ficklin, A. L. Ibrahim and Z. **Yusop** (2014) Impacts and uncertainties of climate change on streamflow of the Johor River Basin, Malaysia using a CMIP5 General Circulation Models ensemble. *Journal of Water and Climate Change*. 5(4): 676-695. doi:10.2166/wcc.2014.020. (IF=1.0, Q3)
81. Adham, M.I., S. M. Shirazi, F. Othman, S. Rahman, Z. **Yusop**, and Z. Ismail (2014) Runoff Potentiality of a Watershed through SCS and Functional Data Analysis Technique. *The Scientific World Journal*, Vol. 2014, Article ID 379763, 15 pages. doi.org/10.1155/2014/379763. (IF=1.73)
82. Shirazi, SM., NH Zardari, Z **Yusop**, Z Ismail and F Othman. (2014). Performance of wheat crop under different irrigation regimes and nitrogen levels – A field experiment, *Journal of Environmental Protection and Ecology*, Revised 10 August 14, ISSN: 1311-5065, IF: 0.34

83. Yakubu, M.L., Z. **Yusop** and F. Yusof (2014) The Modelled Rain Drop Size Distribution of Skudai, Peninsular Malaysia, Using Exponential and Lognormal Distributions, *The Scientific World Journal*. Volume 2014, Article ID 361703, 7 pages. <http://dx.doi.org/10.1155/2014/361703> (ISI, IF=1.73, Q2)
84. Chow M. F and, Z. **Yusop** (2014) Sizing the First Flush Pollutant Loading of Stormwater Runoff from Tropical Urban Catchments. *Environmental Earth Science*, 72: 4047-4058. doi 10.1007/s12665-014-3294-6. (IF=1.57, Q2).
85. Mohsen S., Z. **Yusop**, M Jajarmizadeh and F. Yusof (2014) Development of Generalized Feed Forward Network for predicting annual flood volume (depth) of a Tropical River. *Sains Malaysiana*. 43(12): 1865-1871 (IF=0.5, Q3)
86. **Yusop**, Z., Harisaweni, F. Yusof (2014) Disaggregation of Daily Rainfall Data Using Bartlett Lewis Rectangular Pulse Model: A Case Study in Central Peninsular Malaysia. *Environmental Earth Sciences*, 71: 3627-3640. Springer. Doi 10.1007/s12665-013-2755-7, (IF=1.57, Q1)
87. Shamsudin, S., S. Dan'azumi, A. Aris and Z. **Yusop** (2014) Optimum combination of pond volume and outlet capacity of a stormwater detention pond using particle swarm optimization. *Urban Water Journal*. 11(2):127136 <http://dx.doi.org/10.1080/1573062x.2013.768680>. (IF=1.19, Q2)
88. Chow M.F. and Z. **Yusop** (2014) Characterization and Source Identification of Stormwater Runoff at Tropical Urban Catchments. *Water Science and Technology*. 69.2: 244-252. (IF= 1.12. Q2). Doi 10.21/wst.2013.574
89. Riry W., Tony H., Yus Maria N., A.R. Mohd Yusoff and Z. **Yusop** (2013) A modified Methylation method to detect fatty acid content by gas chromatography. *Bull. Korean Chem Soc*. 34(11): 3239-3242. (IF=0.9)
90. Salarpour M., Z. **Yusop**, F. Yusof, S. Shahid and M. Jajarmizadeh (2013) Flood frequency analysis based on t-copula for Johor River, Malaysia. *Journal of Applied Science*. 13(7): 1021-1028. Doi: 10.3923/jas.2013.1021.1028. ISI
91. Yusof, F., F. Hui-Mean, S. Jamaluddin, Z. **Yusop** and Kong C-Y. (2013) Characterization of drought properties with Bivariate Copula analysis. *Water Resources Management*. 27(120): 4183-4207. doi 10.1007/s11269-013-0402-4. (IF=2.26, Q1)
92. Hudzori, A., H. Hashim, Z. **Yusop**, W.S. Ho (2013) Simulation based programming for optimization of large-scale rainwater harvesting system: Malaysia case study. *Resources, Conservation & Recycling*. 80(1): 1-9. (IF=2.32, Q2)
93. Chow, M.F., Z. **Yusop** and S. Shirazi (2013) Storm Runoff Quality and Pollutant Loading from Commercial, Residential and Industrial Catchments in the Tropic. *Environmental Monitoring and Assessment*. 185:8321-8331. doi 10.1007/s10661-013-3175-6. Springer, (IF = 1.59, Q2)
94. Yusof, F., F Hui-Mean, J Suhaila, Z. **Yusop** and K Ching-Yee (2013). Rainfall characteristics by application of standardised precipitation index (SPI) in Peninsular Malaysia. *Theoretical and Applied Climatology*. Doi 10.1007/s00704-013-0918-9. (IF = 1.76, Q2)

95. Shirazi, S., H. Imran, S. Akib, Z. Yusop & Z.B. Harun (2013) Groundwater vulnerability assessment in Melaka State of Malaysia using DRASTIC and GIS Technique. *Environmental Earth Science*. Doi 10.1007/s12665-013-2360-9. (IF 1.45, Q1)
96. Salarpour, M., Z. Yusop and F. Yusof (2013) Best Statistical Distribution of Flood variables for Sungai Johor Malaysia. *Research Journal of Applied Sciences, Engineering and Technology*. 6(4):733-738. ISI.
97. Chow M.F., Z. Yusop & M.E. Toriman (2013) Level and transport pattern of Fecal Coliform bacteria from Tropical Urban Catchments. *Water Science and Technology*, 67(8): 1822-1831. Doi: 10.2166/wst.2013.048. (IF=1.1, Q2)
98. Yusof, F., I.L. Kane and Z. Yusop (2013) Structural break or long memory: an empirical survey on daily rainfall data sets across Malaysia. *Hydrology and Earth System Science*, 17(4); 1311-1318. (IF= 3.59, Q1)
99. Hekmat, A., Z. Yusop, M. Kashefzadeh, & R. Gholizadeh (2013) Three dimensional dynamic analysis of interaction soil-pile with coupling finite element analysis (FEA) and boundary element method (BEM). *Caspian Journal of Applied Science Research*. 2(AICCE'12&GIZ'12); 269-275. ISI
100. Shirazi, S.M., Z. Yusop, F. Othman and Z Ismail (2012) Yield Contributing Characters of Maize to Irrigation and Nitrogenous Fertilizer. *Journal of Environmental Protection and Ecology*. 13 (3): 1412-1422. (IF=0.26, Q3)
101. Chow M.F., Z. Yusop and M.E. Toriman (2012) Modelling runoff quantity and quality in tropical urban catchments using Storm Water Management Model. *International Journal of Environmental Science and Technology*. 9(4): 737-748, Springer. doi 10.1007/s13762-012-0092-0. (IF=3.1, Q1)
102. Siti Aisah, S., Z. Yusop, Noguchi, S. and Abd. Rahman K. (2012) Rainfall Partitioning Into Throughfall, Stemflow and Interception In a Young Hopea Odorata Plantation. *Journal of Tropical Forest Science*. 24(2): 147-161. (IF=0.51, Q2)
103. Chow M.F., Z. Yusop and M. Mohamed (2011) Quality and first flush analysis of stormwater runoff from a tropical commercial catchment. *Water Science and Technology*, 63(1): 1211-1216, doi: 10.2166/wst.2011.360. (IF=1.12, Q2)
104. Yusop, Z., Chan C.H.. and A. Katimon (2007) Runoff Characteristics and Application of HEC-HMS for Modelling Stormflow Hydrograph in an Oil Palm Catchment. *Water Science Technology*, 56(8): 41-48. (IF=1.09)
105. Nazahiyah R, Z. Yusop and Abustan, I. (2007) Stormwater quality and pollution load estimation from an urban residential catchment in Skudai, Johor, Malaysia. *Water Science Technology*, 56(7): 1-9.( IF=1.09, Q2)
106. Yusop, Z., Abdul Rahim N. and Douglas, I. (2006) Dissolved and undissolved nutrient loading from secondary forest catchments of Malaysia. *Forest Ecology and Management*. 224: 26-44. (IF= 1.8, Q1)
107. Yusop, Z., L.W. Tan, Z. Ujang, M. Mohamed and K.A. Nasir (2005) Runoff quality and pollution loadings from a tropical urban catchment. *Water Science and Technology*, 52(9): 125-132. (IF=1.09, Q2)



108. Sammmori, T. **Z. Yusop**, Baharuddin K, Nogouchi, S. and Tani, M. (2004) Suspended solids discharge from a small forested basin in humid tropics. *Hydrological Processes*, 18(4), 721-738. (IF=1.7, Q1)
109. Noguchi, S., Baharuddin, K., **Z. Yusop**, Tsuboyama and Tani, M. (2003) Depth and physical properties of soil in forest and rubber plantation, Peninsular Malaysia. *Journal of Tropical Forest Science*, 15(4): 513-530. (IF= 0.4, Q3)
110. Umi K. Ahmad, Zaini U., **Z. Yusop** and Ting L.F. (2002) Fluorescence technique for the characterization of natural organic matter in river water. *Water Science Technology*, 46(9): 117-125 (IF= 0.8, Q2)
111. Noguchi, S., **Z. Yusop**, Baharuddin K., Tani, M., Tsuboyama and Sammmori, T. (2000). Seasonal soil water storage changes in a tropical forest in Peninsular Malaysia. *Journal of Japan Society of Hydrology and Water Resources*. 13 (3): 206-215.
112. Othman, M.H.S., Awang Noor, A.G., Abdul Rahim, N., **Z. Yusop** and Razani U. (1999). Trade-offs on competing uses of a Peninsular Malaysian catchment's, *Environment and Development Economics*, 4(3): 279-311, (IF = 0.5, Q2)
113. Noguchi, S. Abdul Rahim N., **Z. Yusop**, Tani, M. And Sammmori, T. (1997) Rainfall-runoff responses and roles of soil moisture variation to the response in tropical rain forest, Bukit Tarek, Peninsular Malaysia. *Journal of Forest Research*. 2: 125-132. (IF=0.6, Q2)
114. **Yusop, Z.**, & Anhar S. (1994) Effects of selective logging methods on suspended solids concentrations and turbidity level in streamwater. *Journal of Tropical Forest Science*. 1(2): 201-214. (IF= 0.3, Q2)
115. Nakashizuka, T., **Z. Yusop** and Abdul Rahim N. (1992) Altitudinal zonation of forest communities in Selangor, Peninsular Malaysia. *Journal of Tropical Forest Science*, 4(3): 233-244. (Q3)
116. **Yusop, Z.**, Abdul Rahim N., Anhar S. and Mohd Fauzi Z. (1989) Rainfall chemistry and nutrient loading in a Peninsular Malaysia forest site. *Journal of Tropical Forest Science*, 1(3): 201 - 214. (Q3)

#### b) Scopus Journal (# 33)

1. Fadlilah, D. R., Endarko, E., Ratnasari, A., Hozairi, H., Yusop, Z., & Syafiuddin, A. (2020). Enhancement of antibacterial properties of various polymers functionalized with silver nanoparticles. *Biointerface Research in Applied Chemistry*, 10(3), 5592-5598. doi:10.33263/BRIAC0103.592598
2. Lazim, Z. M., Salmiati, Hadibarata, T., Yusop, Z., Nazifa, T. H., Abdullah, N. H., . . . Ahmad, N. (2020). Bisphenol a removal by adsorption using waste biomass: Isotherm and kinetic studies. *Biointerface Research in Applied Chemistry*, 11(1), 8467-8481. doi:10.33263/BRIAC111.84678481
3. Romali, N. S., Z. Yusop, N. I. H. Mohd Zaki, S. A. K. Sulaiman, N. A. Ahmad Abdul Ghani, S. Sulaiman (2019) Flood Damage Function Model for Residential area in

- Kuantan: A Preliminary Study. *The International Journal of Integrated Engineering*. 11(2): 203–213. doi.org/10.30880/ijie.2019.11.02.022
4. Romali, N.S., Z. Yusop, M. Sulaima, Z. Ismail (2017) Flood Risk Assessment: A Review of Flood Damage Estimation Model for Malaysia. *Jurnal Teknologi (Sciences & Engineering)*, 80(3): 145–153
  5. Yakubu, M.L., Z. Yusop, R. Ismail, I. B. Koki, M.T. Ahmad and A. Tukur (2019) innovative proposition and prediction of urban Wet weather washoff using simulated rainfall. *Journal of Urban and Environmental Engineering*, 13(2): 329-335 doi: 10.4090/juee.2019.v13n2.329335
  6. Hirol, H., M.A. Mohd Noor, E.H. Kasiman, A.K.B. Hong, Z. Yusop & A.Y. Mohd Yassin (2017) Meshless Point Interpolation Formulation of Kinematic Wave Equation for Flood Routing. *Journal of Engineering and Applied Science*, 12(20): 5286-5293. ISSN: 1816-949X.
  7. Lloyd L., Z. Yusop, and Y. F. Huang (2017) New Method of Curve Number Derivation with Inferential Statistics. *Pertanika J. Sci. & Technol.* 25 (S): 139 - 150
  8. Rahman, N.A., Z. Yusop, Şen, Z., Taher, S., Kane, I.L. (2017) Mitigation of time series approach on climate change adaptation on rainfall of Wadi Al-Aqiq, Madinah, Saudi Arabia. *Jurnal Teknologi*, 70(5): 91-104. DOI: 10.11113/jt.v79.10206
  9. Lloyd Ling and Z. **Yusop** (2016) Mean, Median or Something Else? *ARPN Journal of Engineering and Applied Sciences*. 11(16): 9706-9711. Q4
  10. Ahmad Lutpi Nur Anis, M. Ali M. Yuzir, E. L. Yong, M. R. Salim, Z. **Yusop**, Salmiati (2015). The Effect of Water Quality On Removal Of Acetaminophen In Surface Water By Ozonation Process. *Jurnal Teknologi* . 74(11): 1-7.
  11. Mohd Zahari, A., A. R. Mohd Yusoff, N. A. Buang, P. Satishkumar, M J. Fathi Jasni, Z. **Yusop** (2015) Fabrication and Characterization of Polyvinylidene Fluoride Composite Nanofiber Membrane for Water flux Property. *Jurnal Teknologi* . 74(11): 9-14.
  12. Mat Lazim, Z., Tony Hadibarata , M. H. Puteh, Z. **Yusop**, Riry Wirasnita, N. Mohd Nor (2015) Utilization of Durian Peel as Potential Adsorbent for Bisphenol a Removal in Aqueous Solution. *Jurnal Teknologi* . 74(11): 109-115.
  13. Ahmad Ismail, Z., Z. **Yusop** and Z. Yusof (2015) Comparison of Flood distribution models for johor river basin Ahmad. *Jurnal Teknologi* . 74(11): 123-128.
  14. Mat Lazim, Z., Elina Mazuin, Tony Hadibarata , Z. **Yusop** (2015) The Removal of Methylene Blue and Remazol Brilliant Blue R Dyes by using Orange Peel and Spent Tea Leaves. *Jurnal Teknologi* . 74(11): 129-135.
  15. Muhamad Askari, M. A. Mustafa, B. I. Setiawan, M. A. Mohd Soom, S. Harun, M. R. Zainal Abidin, Z. Yusop (2015) A combined sensitivity analysis of seven potential evapotranspiration models. *Jurnal Teknologi*. 76(5): 61-68.
  16. Yakubu, M. L. and Z. **Yusop** (2014) Carbon Matrix as a Surrogate Measure for Polycyclic Aromatic Hydrocarbon Pollution in Road Sediments. *Jurnal Teknologi*. 69:2 (2014), 111–115. (Scopus)

17. Mat Lazim, Z., N. S. Zulkifli, Tony Hadibarata, Z. Yusop. (2015) Removal of Cresol Red and Reactive Black 5 Dyes by using Spent Tea Leaves and Sugarcane Baggase Powder. *Jurnal Teknologi* . 74(11): 147-153.
18. Lloyd L., Z. Yusop (2015) The Collective Visual Representation of Rainfall-Runoff Difference Model. *Lecture Notes in Computer Science*. Vol 9429: 271-282
19. Lloyd L. & Z. Yusop (2016) Inferential Statistics Assessment Of Urban Rainfall-Runoff Models. *ARPJ Journal of Engineering and Applied Sciences* 11(4): 2564-2569, Q3
20. Alias, N. E., H. Mohamad, W. Y. Chin, Z.i Yusop (2016) Rainfall Analysis of The Kelantan Big Yellow Flood 2014. *Jurnal Teknologi*, 78: 9–4 (2016) 83–90
21. Padfield, R., C. Richard., Z. Yusop, J.R Packey, O. Harrison, C. Preece (2014) Tackling wicked problems in the Malaysian water industry: A framework for university-industry research partnership. *Journal of Governance and Development*, 10: 99-119. (scopus).
22. Fulazaky, M.A., Z. Yusop, and A.H.M. Kassim (2014) A new technique using the aero-infiltrimeter to characterise the natural soils based on the measurements of infiltration rate and soil moisture content. *Hydrology and Earth System Science Discussion*. 11: 2515-2553. Doi 10.5194/hessd-11-2515-2014. (Scopus)
23. Toriman, M.E., A. Afzan, Z. Yusop (2013) Assessment of mangrove water quality by multivariate statistical analysis in Suppa Coast, South Sulawesi, Indonesia. *World Applied Science Journal*, 28(9): 1301-1310
24. Toriman, M.E., A.C. Er, Q.Y. Lee, Sharifah Masturah S.A., F.M. Jali, M. Mokhtar, Rahmah Elfithri, M.B. Gasim, Z. Yusop, N.A. Aziz, H. Ahmah & Hamzah (2013) Paddy production and climate change variation in Selangor, Malaysia. *Asian Social Science*. 9(4) 55-62. Doi: 10.5539/ass.v9n14p55. scopus
25. Yusof, F., Ibrahim L. K. and Z. Yusop. (2013) Time Varying Volatility Modelling of Rainfall Time Series. *Jurnal Teknologi*. 63(2): 27-34. Scopus
26. Tan W. L., F. Yusof and Z. Yusop (2013). Non-homogenous Markov Model For Daily Rainfall Amount In Peninsular Malaysia. *Jurnal Teknologi*. 63 (2): 75-79. Scopus
27. Toriman, M.E., M. B. Gasim, Z. Yusop, I. Shahid, S.A. Sharifah Mastura, P. Abdullah, M. Jaafar, N. A. Abdul Aziz, M.K.A. Kamarudin, O. Jaafar, O. Karim, H. Juahir and N.R. Jamil (2012). Use of <sup>137</sup>Cs activity to investigate sediment movement and transport modeling in river coastal environment. *American Journal of Environmental Science*, 2012, 8 (4), 417-423. (Scopus)
28. Salarpour M., Z. Yusop and F. Yusof (2012) Modeling the Distributions of Flood Characteristics for a tropical River Basin. *Journal of Environmental Science and Technology*. 5(6): 419-429. Doi: 10.3923/jest 2012. Scopus
29. Mohd. Fadhil. M. D., Ponraj M., F. M. Sairan , Z. Ujang , Z. Yusop, Markus S., A. N. Anuar and S. Chelliapan. (2012) Centralized or Decentralized - Best Project Option (BPO) for Melana River Basin, Malaysia. *ARPJ Journal of Science and Technology*. 2 (10): 897-903.

30. Salarpour, M. G., Z. **Yusop**, and Norhan A.R. (2011) Simulation of flood extent mapping by Infowork RS – A case study for tropical catchment. *Journal of Software Engineering*, 5 (Dec), 1-9. doi: 10.3923/jse.2011 (Scopus)
31. Chow, M.F., Z. **Yusop** (2009) Storm runoff quality in a medium cost residential catchment in Malaysia, *Journal of Environmental Hydrology*, 17(#33): 1-9 (Scopus). ISSN 1058-3912
32. Fadhilah Y, Zalina M.D., Nguyen V-T-V, S.Suhaila S, Z. Yusop (2007) Fitting the Best-fit distribution for the Hourly Rainfall Amount in the Wilayah Persekutuan. *Jurnal Teknologi*. 46(C): 49-58.
33. **Yusop, Z.**, Anhar S. and Mohd Pauzi Z. (1987) Effects of selective logging on physical streamwater quality in hill tropical rain forest. *Malaysian Forester*, 50(3): 281-310.

#### c) Non Index Journal (13)

1. Mohd Aziz, M. K. B.,F. Yusof, Z. Mohd Daud and Z Yusop and M. Afif Kasno (2019) Comparison of Semivariogram Models in Rain Gauge Network Design. *MATEMATIKA*, MJIAM 2019, 35 (2): 157–170
2. Chew T. H, M. S. Shamsir, Z. Yusop (2019). Water Research Productivity, Trends and Collaboration in Malaysia between 1964 to 2012. *Journal of Research Management and Governance*. 1(1): 1-30.
3. Andrab, S.G., A. Hekmat, Z. **Yusop** (2017) A Review: Evolutionary Computations (GA and PSO) in Geotechnical Engineering. *Computational Water, Energy, and Environmental Engineering*, 2017, 6, 154-179. Doi: 10.4236/cwee.2017.62012
4. Yakubu, M.L. and Z. **Yusop** (2015) The predilection of water and generic filter as a medium for urban build-up sampling. *Malaysian Journal of Civil Engineering*. 2015(1): 83-92
5. Yusop, Z (2015) Re-evaluating Land Use Options in Malaysia for Reducing Flood Risk *Human Ecology Journal*. 26: 17-19
6. **Yusop, Z.**, Chong Meng Hui, Geoffery James Garusu, Ayob Katimon (2008) Estimation of Evapotranspiration in Oil Palm Catchments by Short-Time Period Water-Budget Method. *Malaysian Journal of Civil Engineering*, 20(2): 160-174.
7. Fadhilah Y., Zalina M.D., Maizah Hura A., Nguyen V.T.V., Z. **Yusop** (2008) Assessment of Point Process model following the Newman Scott Process. *Matematika*, 23(2): 535-545
8. Fadhilah Y. Zalina MD, Nguyen V-T-V, Z. Yusop (2007) Performance of Mixed Exponential and Exponential Distribution Representing Rain Cell Intensity in using Neyman-Scott Rectangular Pulse (NSRP) Model. *Malaysian Journal of Civil Engineering*, 19(1): 55-72.
9. **Yusop, Z.**, Cham, S.Z. & Chong J.H (2003) Throughfall, stemflow and interception loss of old rubber stands, *Jurnal Kejuruteraan Awam*, 15(1): 24-33.

10. Mohd Ekhwan T., **Z Yusop**, Mazlin M., Hafizan J. (2006) Using GIS for Assessing Dynamic Langat River Channel. *Malaysian Journal of Civil Engineering*, 18(1): 59-70.
11. Geoffery, J.G. and **Z. Yusop** (2005) Bedload Transport from a regenerated forest catchment in Sarawak. *Jurnal Kejuruteraan Awam*. 17(2): 69-72
12. Nurul Adzura I., Harun, S. and Z. Yusop (2004) Synthetic simulation of streamflow and rainfall data using disaggregation models, *Jurnal Kejuruteraan Awam* 16(2): 57-66.
13. Ayob K., Azraai K., Fadil O., Johan S., **Z. Yusop** and Normala H. (2004) Agriculture drainage affects river water quality *Journal Institution of Engineers, Malaysia*. 65 (1/2): 1-7.

#### d) Book (8)

1. Zulkifli Yusop and Abdul Hamid Mariman (2020) Bah Kuning 2014 di Kelantan. Penerbit UTM. ISBN 978-983-52-1670-1
2. Zulkifli Yusop, Azmi Aris, Nor Eliza Alias, Kogila Vani Annamala (2018) Improving Flood Management, Prediction and Monitoring – Case Studies in Asia. Community, Environment and Disaster Risk Management, Volume 20. **Emerald Publishing**. Pp 151. ISBN 978-1-78756-552-4.
3. **Yusop, Z.**, A. Aris, Z. Zainun Nur, M.S. Shahir, N.H. Zardari & M.A. Yuzir (2014) Study on the Current Status and Needs Assessment of Water Resources Research in Malaysia. Academy of Science Malaysia. ISBN 978-983-2915-15-7.
4. Zardari, N.H., Ahmed, K., Shirazi, S.M., **Yusop, Z.** (2014). Weighting Methods and their Effects on Multi-Criteria Decision-Making Model Outcomes in Water Resources Management, **Springer International Publishing** (Verlag), Switzerland, ISBN 978-3-319-12585-5, pp. 191. <https://www.springer.com/gp/book/9783319125855>
5. **Yusop, Z.** (2010) Water sustainability: Wisdom in the headwater. Professorial Inaugural Lecture Series. Penerbit UTM Press, 46pp. ISBN 978-983-52-0751-8
6. Ayob K., **Z. Yusop** & Kawi Bidin (2007) Asas Hidrologi. **Pearson Education**: ISBN 978-983-3927-30-2.
7. Baharuddin K., **Z. Yusop**. and Abdul Rahim N. (1999) A guide for estimating surface soil loss using the modified soil loss equation (MSLE) on forest land. **FRIM Technical Information Handbook** No. 25. FRIM. ISBN 983-9592-96-3
8. Abdul Rahim N., Ahmad Fauzi P., Amir Shaari A.N., Awang Noor A.G., Baharuddin K., Lim H.F., Mohd Parid Mamat, Mohd Shahwahid H. O., Muhamad Azmi M.I., Muhammad farid A.R., Salleh M., Shamsuddin M., Wan Mohd Shukri W.A., **Z. Yusop**. (2001) A model project for cost analysis to achieve sustainable forest management. Forest Research Institute Malaysia (FRIM) & International Tropical Timber Organization (ITTO). 124 pp. ISBN 983-2181-24-0

e) Book Chapter (25)

1. Sugumaran D., Annammala K.V., Yusoff A.R.M., Yusop Z., Mohamad N.A., Nainar A (2021) Tracing non-point source sediment using environmental forensic approach: Case study in Kelantan river basin, Malaysia, *Community, Environment and Disaster Risk Management* Vol. 23, Pages 173 - 185 2021. Scopus
2. Chow M.F. and Yusop Z. (2019) Contributions of Dry and Wet Weather Runoffs to Annual Pollutant Loading in Tropical Urban Catchments. In: Pradhan B. (eds) *GCEC 2017. GCEC 2017. Lecture Notes in Civil Engineering*, vol 9. Springer, Singapore
3. Kogila V. A., Anand N., A. Rahim M. Y., Z. Yusop, K. Bidin, R. P. D. Walsh, William H Blake, Faizuan Abdullah, Dhinesh Sugumaran, Khuneswari Gopal Pillay (2018) Environmental Forensics: A Multi-catchment Approach to Detect Origin of Sediment Featuring Two Pilot Projects in Malaysia. In Z. Yusop, A. Aris, N. E. Alias, Kogila V. A. (eds) *Improving Flood Management, Prediction and Monitoring: Case Studies in Asia Improving Flood Management, Prediction and Monitoring – Case Studies in Asia. Community, Environment and Disaster Risk Management Volume 20. Emerald Publishing Ltd.* Pp 49-61. ISBN 978-1-78756-552-4.
4. Norrulashikin, S.M., F. Yusof, Z. Yusop, I. Lawal Kane, N. Salleh, A. R. Jamaludin (2018). Kelantan Daily Rainfall Datasets: Persistence in Nature. In Z. Yusop, A. Aris, N. E. Alias, Kogila V. A. (eds) *Improving Flood Management, Prediction and Monitoring: Case Studies in Asia Improving Flood Management, Prediction and Monitoring – Case Studies in Asia. Community, Environment and Disaster Risk Management Volume 20. Emerald Publishing Ltd.* Pp 121-131. ISBN 978-1-78756-552-4.
5. Lloyd L. and Z. Yusop (2018) Derivation of Region-specific Curve Number for an Improved Runoff Prediction Accuracy. In Z. Yusop, A. Aris, N. E. Alias, Kogila V. A. (eds) *Improving Flood Management, Prediction and Monitoring: Case Studies. In Asia Improving Flood Management, Prediction and Monitoring – Case Studies in Asia. Community, Environment and Disaster Risk Management Volume 20. Emerald Publishing Ltd.* Pp 121-131. ISBN 978-1-78756-552-4.
6. Siti Aisah Shamsuddin, S.A., W. M. Shukri, Z. Yusop and S. Noguchi (2017) Forest Management and Water in Malaysia. In P. A. Garcia-Chevesich, D. G. Neary, D. F. Scott, R. G. Benyon, T. Reyna (eds.) *Forest Management and the impact on water resources: a review of 13 countries, IHP VIII/Technical Document No 37. UNESCO.* Pp 105-127. ISBN 976-92-3-100216-8
7. Harisaweni, Z Yusop & F. Yusof (2016) The use of Bartlett Lewis Rectangular Pulse Model for disaggregating daily rainfall in Peninsular Malaysia. In Noorul Hassan Zardari (ed) *Water Resource - Research on Modelling and Management.* Pp 99-120. Penerbit UTM. ISBN 978-983-52-1163-8.
8. Shirazi, S.M., N.H. Zardari, A Almamun, M.I. Adham, Z Ismail, Z Yusop & I Naubi (2015) Runoff assessment of Johor Bahru Watershed in Malaysia. In Noorul Hassan Zardari (ed) *Water Resource - Research on Modelling and Management.* Pp 121-142. Penerbit UTM. ISBN 978-983-52-1163-8.

9. NRE (2013) A Self Assessment on the Environmental Performance Index (EPI) 2012 for Malaysia. NRE @ UTM Press.
10. **Yusop, Z.**, M.E. Toriman, M. Askari and S.M. Shirazi (2014) Integrated Water Resources Management in Malaysia: Time for Stronger Action. **Springer**
11. Kamarudin, M.K.A, M.E. Toriman, M.H. Rosli, H. Juahir, N. A. Abd Azziz, **Z. Yusop**, A.S. Mohd Saudi (2014) Siasatan Evolusi Meander Sungai Menggunakan Pendekatan Sistem Maklumat Geografi (GIS) di Hulu Sungai Pahang. Dlm Hidrologi Tanah Tinggi . Penerbit UniSZA. Pp 4-44.
12. **Yusop Z.** & A. R Mohd Yusoff (2012) Asas fiqh bagi mengukuhkan pelestarian alam sekitar. In Fiqh Sains & Teknologi Dasar dan Halatuju. Farahwahida M.Y dan Sharel Ahmad S.A (eds). Penerbit UTM. ISBN 978-983-52-0903-1
13. Ujang Z., **Z. Yusop**, A.R.Yusoff, R. Ahmad, A. Aris, S. Azman, N. Schofield ( 2010). Sustaining Malaysia's Future: The Mega Science Framework for Water. Akademi Sains Malaysia.
14. NRE (2011) A Self Assessment on the Environmental Performance Index (EPI) 2010 for Malaysia. NRE @ UTM Press. 978-983-52-0798-3
15. **Yusop, Z.**, Muhamad Yuzir, M.A., Azman, S. (2010). Water Sustainability. Proceedings of Postgraduate Seminar UTM-UNESCO-IHE. ISBN 978-983-9805-82-6.
16. Chappell, N., W. Tych, **Z. Yusop.**, Abdul Rahim N., & Baharuddin K (2005) Spatially-significant effects of selective tropical forestry on water, nutrient and sediment flows: a modelling-supported review. In M. Bonell & Bruijnzeel (eds) Forests-Water-People in the Humid Tropics. **Cambridge Press.** pp. 513-532. ISBN-10: 0521829534
17. Abdul Rahim N, Wan Razali W.M., **Z. Yusop.**, Chan H.T., Lim H.F., Louis R., Appanah S., Amir Husni M.S., Baharuddin K., Manokaran N., Nor Azlin Y. and Adzmi Y. (1998) EIA guidelines for harvesting of natural forests. **FRIM Technical Information Handbook** No 14. Forest Research Institute Malaysia. ISBN 983-9592-78-5
18. **Z. Yusop.**, Tan L. W., Kamarul Azlan M.N. and Maketab Mohamad (2004) Stormwater quality and pollution loadings from an urban catchment in Johor Bahru. In Alias Abdullah, Norio Okada (eds.) Water Environmental Planning: Towards Integrated Planning & Management of Water Resources for Environmental Risks. Kuala Lumpur: International Islamic University Malaysia. ISBN 983-40872-5-X
19. Maketab M., **Z. Yusop &** Zaini U. (2004) Urban river rehabilitation – Water quality and pollution loads of Sungai Tebrau, Johor. In Alias Abdullah, Norio Okada (eds.) Water Environmental Planning: Towards Integrated Planning & Management of Water Resources for Environmental Risks. Kuala Lumpur: International Islamic University Malaysia. ISBN 983-40872-5-X
20. Tani, M., Abdul Rahim N., Ohtani, Y., Yasuda, Y., Mohd Md. Sahat, Baharuddin K., Takashi, S., Noguchi, S., **Z. Yusop.**, Watanabe, T. (2003) Characteristics of energy exchange and surface conductance of a tropical rain forest in Peninsular Malaysia. In T. Okuda, N. Manokaran, Y. Matsumoto, K. Niiyama, S.C. Thomas, P.S. Ashton (eds.) Pasoh: Ecology of a Lowland Rain Forest in Southesat Asia. Tokyo: **Springer-Verlag.** 73-88pp. ISBN 4-431-00660-5.  
[http://link.springer.com/chapter/10.1007%2F978-4-431-67008-7\\_6](http://link.springer.com/chapter/10.1007%2F978-4-431-67008-7_6)

21. **Z. Yusop**., Kamarul Azlan, Norhan A. R., M. Kamil Y., Mohd Nor M.D., & Khairuddin M (2002) Proceedings of the Regional Conference on Hydrology and Environment of Small Islands. Tioman, 29-31 May 2000. ISBN 983-40999-1-6 (Editor).
22. **Z. Yusop**. Krogh, V. and Baharuddin K. (1999) Hydrological characteristics of the North Selangor Peat Swamp Forest. In. Chin T.Y. and P. Havmoller (eds.) Sustainable Management of Peat Swamp Forests in Malaysia: Vol II – Impacts. Forestry Department Peninsular Malaysia, Kuala Lumpur. Pp. 1-38. ISBN 983-9269-08-9
23. **Z. Yusop**. (1999) Hydrological attributes of the Southeast Pahang Peat Swamp Forest. In. Chin T.Y. and P. Havmoller (eds.) Sustainable Management of Peat Swamp Forests in Malaysia: Vol II – Impacts. Forestry Department Peninsular Malaysia, Kuala Lumpur. Pp. 39-80. ISBN 983-9269-08-9
24. Ramli N., **Z. Yusop**., Nasly M.A., Aminaton M., A. Baharuddin A.R., Wahid O., Fauziah K. & Khalida M (2001) Three Decades of Faculty of Civil Engineering (1972-2000). ISBN 983-9805-37-1
25. **Yusop, Z.**, Baharuddin K. and Abdul Rahim N. (1998) Estimating rates of nutrient recovery following timber harvesting in a second growth forest of Peninsular Malaysia. *Forestry Science*, vol 54. Kluwer Academic Publisher, Dordrecht. Pp. 419-429.

**f) Scopus Proceedings (19)**

1. Bahar, A.F., Z Yusop, N.E. Alias, M.W.A. Ramli (2021) Influence of Dam to Rainfall-Runoff Response in a Tropical Climate–A Case Study of Selangor River Basin, Malaysia. IOP Conference Series: Materials Science and Engineering. **1153** 012004 . doi:10.1088/1757-899X/1153/1/012004
2. Laksono, Y.A. S. Zulaikah, Sutrisno, Z. Yusop, D. A. Suaidi, A. Fuad, M. B. S. Rahman, and Q. F. Anggana (2020) Detection of seepage source path location in Selorejo downstream foothill dam using georadar. AIP Conference Proceedings 2251, 040047 (2020); <https://doi.org/10.1063/5.0015745>
3. Laksono, Y.A. S. Zulaikah, Sutrisno, Z. Yusop, M. B. S. Rahman, and Q. F. Anggana (2020). Using georadar as a dam pore water pressure measurement — case study of Sutami Dam. AIP Conference Proceedings 2251, 040015 (2020); <https://doi.org/10.1063/5.0015741>
4. Ramli, M. W. A., Alias, N. E., Yusop, Z., & Taib, S. M. (2020). Disaster risk index: A review of local scale concept and methodologies. Paper presented at the *IOP Conference Series: Earth and Environmental Science*, , 479(1) doi:10.1088/1755-1315/479/1/012023 Retrieved from [www.scopus.com](http://www.scopus.com)
5. Ling L., Chow M.F., Tan W.L., Tan W.J., Tan C.Y., Yusop Z. (2020) New Regional-Specific Urban Runoff Prediction Model of Sungai Kayu Ara Catchment in Malaysia. In: Awang M., Meor M Fared M. (eds) ICACE 2019. Lecture Notes in Civil Engineering, vol 59. Springer, Singapor
6. Tan W.J., Ling L., Yusop Z., Huang Y.F. (2019) Claim Assessment of a Rainfall Runoff Model with Bootstrap. In: Kor LK., Ahmad AR., Idrus Z., Mansor K. (eds) Proceedings



- of the Third International Conference on Computing, Mathematics and Statistics (iCMS2017). Springer, Singapore
7. Hafizi Md Lani N., Syafiuddin A., Yusop Z. (2019) Comparison of Cost Benefits of New Installation and Retrofitted Rainwater Harvesting Systems for Commercial Buildings. In: Mannina G. (eds) *New Trends in Urban Drainage Modelling*. UDM 2018. Green Energy and Technology. **Springer, Chambridge**. Pp169-174.
  8. Tan W J, L Ling, Z **Yusop** and Y F Huang (2018) New Derivation Method of Region Specific Curve Number for Urban Runoff Prediction at Melana Watershed in Johor, Malaysia. *IOP Conf. Series: Materials Science and Engineering* 401 (2018) 012008 doi:10.1088/1757-899X/401/1/012008
  9. N S Romali, N.S, Z Yusop, and A Z Ismail (2018) Hydrological Modelling using HEC-HMS for Flood Risk Assessment of Segamat Town, Malaysia. *IOP Conf. Series: Materials Science and Engineering* 318 (2018) 012029 doi:10.1088/1757-899X/318/1/012029
  10. Romali, N.S and Z. **Yusop** (2017) Frequency Analysis of Annual Maximum Flood for Segamat River. *MATEC Web of Conference* 103, 04003 (2017). (Scopus)
  11. Salleh, N., Yusof, F., & **Yusop**, Z. (2016). Bivariate copulas functions for flood frequency analysis. In *Advances in Industrial and Applied Mathematics: Proceedings of 23rd Malaysian National Symposium of Mathematical Sciences, SKSM 2015*. (Vol. 1750). [060007] American Institute of Physics Inc.. DOI: 10.1063/1.4954612
  12. **Yusop**, Z., Kadir, A. A., Noor, Z.Z. (2017) Benthic macroinvertebrate composition and water quality status in Sungai Johor, Johor, Malaysia. *Chemical Engineering Transaction*. 56: 187-192. (Scopus)
  13. Rusli,N., M. R. Majid, Z. Yusop, M. L. Tan, S. Hashim and S. N. Bohari (2017). "Integrating manual calibration and auto-calibration of SWAT model in Muar Watershed, Johor," *2016 7th IEEE Control and System Graduate Research Colloquium (ICSGRC)*, Shah Alam, 2016, pp. 197-202, doi: 10.1109/ICSGRC.2016.7813327.
  14. Sahat, S., Z **Yusop**, M Askari and A D Ziegler (2016) Estimation of Soil Erosion Rates in Oil Palm Plantation with Different Land Cover. *Soft Soil Engineering International Conference 2015 (SEIC2015)*. *IOP Conf. Series: Materials Science and Engineering* 136 (2016) 012086 doi:10.1088/1757-899X/136/1/012086 (Scopus)
  15. Salarpour, M, Z. **Yusop** , F. Yusof, S. Shahid, M. Jajarmizadeh (2016) Flood Frequency Analysis Based on Gaussian Copula. *Proc. of the International Symposium on Flood Research and Management 2015*. Springer. 10.1007/978-981-10-0500-8\_13 (Scopus)
  16. Romali N. S. S. A. K. Sulaiman, Z. **Yusop**, Z. Ismail (2015) Flood Damage Assessment: A Review of Flood Stage–Damage Function Curve. *ISFRAM 2014*. Springer. Doi 10.1007/978-981-287-365-1\_13. (Scopus)
  17. Ling, L. and Z. **Yusop** (2014) A micro focus with macro impact: Exploration of initial abstraction coefficient ratio ( $\lambda$ ) in Soil Conservation Curve Number (CN) methodology. Volume 18, Issue 1, 2014. *8th International Symposium of the Digital Earth, ISDE 2014*; Kuching, Sarawak; Malaysia. (Scopus)

18. Baki, A., I. Atan, F. Ali, Z. Yusop, M.K. Khalil (2012) Annual interception loss estimation with a simple equation Proceedings of IEEE Symposium of the Humanities, Science and Engineering Research (SHUSER), 2012, June 2012, pg 1477-1482. (Scopus)
19. Abu Bakar, A. A., Baki, A., Hamzah, N., Z. Yusop., Khalil, M. K. (2012) Throughfall, Stemflow and Interception Loss of Artificial Tropical Forest. IEEE Colloquium on Humanities, Science and Engineering Research (CHUSER).3-4 Dec. 2012. 92-96. (Scopus)

**g) Technical Series/Occasional Paper/monograph (8)**

1. Yusop, Z. (2006) Characterization of natural organic matter for drinking water production. ISBN 978-967-353-038-0
2. Yusop, Z. (2006) Penentuan kesan penebangan hutan ke atas parameter aliran ribut. ISBN 978-967-353-345-9.
3. Yusop, Z., Shamsuddin I., Baharuddin K and Ahmad C.S. (2004) Runoff estimation from the North Selangor Peat Swamp Forest. In Abdul Rahim N. (ed) Water: Forestry and Land Use Perspective. *IHP Technical Document in Hydrology*, Paris: UNESCO, no 70, 106-114. ISBN 9292200305
4. Abdul Rahim Nik, Z. Yusop. (2004) Hydrological impacts of forestry and land-use activities: Malaysian and regional experience. *IHP Technical Document in Hydrology*, Paris: UNESCO, no 70, 86-105. ISBN 9292200305
5. Yusop, Z. (2000) Hydrological study in the North Selangor Peat Swamp Forest. *Civil Engineering Bulletin*, Dec 2000.
6. Yusop, Z. (1998) The hydrological effects of forest removal. *FRIM in Focus*, August 1998.
7. Mohd Shahwahid H.O., Awang Noor A.G., Abdul Rahim N. & Z. Yusop. (1997) Economic benefits of watershed protection and trade-off with timber production: a case study in Malaysia. Economic and Environment Program for Southeast Asia. *EEPSEA Research Report Series*, May 1997.
8. DID (1989) Water quality. In: Sungai Tekam Experimental Basin Final Report July 1977 to June 1986. Drainage and Irrigation Department, *Water Resources Publication*, no. 20. pp. 36 - 52.

**h) Refereed/Edited International Proceedings (64) – not updated**

1. Zardari, N.H., Rahim, A. and Yusop, Z. (2013). A review on application of multicriteria decision analysis techniques in water resources and hydrology. International Conference on Water and Wastewater management (ICWWM) 2013. Kuala Lumpur 8-10 Oct.
2. Zardari, N.H., Rahim, A., Yusop, Z., and Cordery, I. (2013). A Multi-Criteria Approach for Efficient Water Allocation in Irrigated Agriculture, Proceedings of 2013

- IWHA Conference of "The Role of Water in the History: Exploring Historical Wisdom for Current Water Management", 28-30 January 2013, Kunming, China, pp. 44-54.
3. Baharim, N., Z. **Yusop**, M. Askari, I. Yusoff, W.Z. Wan Muhd Tahir, Z. Othman, M.R. Zainal Abidin (2012) Preliminary study of vertical sampling in determining stratification in Sembrong Reservoir, Peninsular Malaysia. Proc of the 2<sup>nd</sup> International Conference on Water Resources (IWCR 2012), Langkawi. Nov 5-7.
  4. Askari, M., Z. **Yusop**, A. Katimon, A. Aris, A.R. Mohd Yusoff, M.N. Said, K.A. Mohd Nasir, M.N. Hanapi, S. Harun, B. Musta, N.Z. Amran, and K. Kambari (2012) Conjunctive use of surface and groundwater resources for Gugusan FELDA Sahabat in Lahat Datu Sabah. Proc of the 2<sup>nd</sup> International Conference on Water Resources (IWCR 2012), Langkawi. Nov 5-7
  5. Sahat, S., Z. **Yusop** & M. Askari (2012) Effectiveness of different surface cover types in reducing runoff and soil erosion in oil palm catchment. Proc of the 2<sup>nd</sup> International Conference on Water Resources (IWCR 2012), Langkawi. Nov 5-7
  6. Hekmat, A. Z. **Yusop**, M. Kashefzadeh & R. Gholizadeh (2012) Three dimensional dynamic analysis of interaction soil-pile with coupling Finite Element Analysis (FEA) and Boundary Element Method (BEM). Proc Awam International Conference on Civil Engineering and Geohazard Information Zonation. Penang, 28-30 August.
  7. **Yusop**, Z. and M.F. Chow (2012) Evaluation of best sampling time for measurement of oil and grease. 6<sup>th</sup> International Conference on Environmental Science and Technology. Hoston, USA. 25- 29 Jun
  8. Fadhilah Yusof, Tan Wei Lun<sup>1</sup>, Z **Yusop** (2011) Using Hidden Markov Models for Daily Rainfall Occurrence in Peninsular Malaysia. Proc of the International Conference on Analytical Algebra and Analysis (ICAAA 2011). Istanbul 29 Jun-2 July
  9. Chow M.F. & Z. **Yusop** (2011) Influences of Hydrological Regime on Runoff Quality and Pollutant Loadings in Tropical Urban Areas. American Geophysical Union (AGU) Fall Meeting 2011. Dec
  10. Chow M.F. & Z. **Yusop** (2011) First Flush Characterization of Stormwater Runoff from Urban Land Uses in Malaysia. The 4<sup>th</sup> IWA-ASPIRE Conference, Tokyo, 2-6 Oct
  11. Chow M.F., Z. **Yusop**, M. Mohamed (2010) Event Mean Concentration (EMC) of Stormwater runoff in commercial catchment. Proceedings of the 1<sup>st</sup> Young Water Professionals Conference, IWA YWP 2010. ISBN: 983-9805-86-4
  12. Tan W.F., F. Yusof, Z. **Yusop** and N.A. Nubahari (2010) Fitting optimum order of Markov Chain Models for hourly rainfall using Bartlett Lewis Rectangular Model for Johor, Damansara and Kelantan. Proceedings of the 1<sup>st</sup> Young Water Professionals Conference, IWA YWP 2010. ISBN: 983-9805-86-4
  13. Hareswani, Z. **Yusop**, F. Yusof (2010) Disaggregation of daily to hourly rainfall in urban. Proceedings of the 1<sup>st</sup> Young Water Professionals Conference, IWA YWP 2010. ISBN: 983-9805-86-4

14. Firouzi, M., Z. **Yusop**, & S. Goodrazi (2010) Water demand management strategies: Experiences in developed and developing countries. Proceedings of the 1<sup>st</sup> Young Water Professionals Conference, IWA YWP 2010. ISBN: 983-9805-86-4
15. Md Din, M.F. F.M. Sairan, Z. **Yusop**, Z. Ujang and M. Starkl (2010) Development of technical options for a sustainable sanitation system in small village. Proceedings of the 1<sup>st</sup> Young Water Professionals Conference, IWA YWP 2010. ISBN: 983-9805-86-4
16. Tan W.L., Fadhilah Yusof., Zulkifli **Yusop** and Nurul Adibah Nubahari (2010) Determining the optimum order of Markov Chain Models for Hourly Rainfall Occurrence in Kelantan. In Zulkifli **Yusop**, M. Ali M. Yuzir and Shamila Azman (eds.) Proceedings of the Postgraduate Seminar on Water Sustainability. Pp 1-12. ISBN 978-983-9805-82-6.
17. Goh Y.C. Zulkifli **Yusop** (2010) Comparison of Semivariogram Models for Ordinary Krigging Using a GIS-Based DSS. In Zulkifli **Yusop**, M. Ali M. Yuzir and Shamila Azman (eds.) Proceedings of the Postgraduate Seminar on Water Sustainability. Pp 47-57. ISBN 978-983-9805-82-6.
18. Chow M.F. and Zulkifli **Yusop** (2010) Total suspended solids washoff and loadings from commercial area in Skudai, Johor. In Zulkifli **Yusop**, M. Ali M. Yuzir and Shamila Azman (eds.) Proceedings of the Postgraduate Seminar on Water Sustainability. Pp 58-68. ISBN 978-983-9805-82-6.
19. Zulkifli **Yusop**, Chan C.H. & Kamarul Azlan M.N. (2009) Predicting cumulative effects of land use on runoff. In Proceedings Water Resources Management Seminar. JSPS-VCC Program, Kyoto 21&22 Dec .
20. Khairatunnisa Mokhtar and Zulkifli **Yusop** (2009) Sediment loading in oil palm catchment. In Proceedings Regional Conference on Environment and Earth resources. Kuantan, 8 & 9 Dec 2009
21. Chow, M.F. and Zulkifli **Yusop** (2009) Fate and transport of oil and greese in stormwater from a high density commercial area. In Proceedings Regional Conference on Environment and Earth Resources. Kuantan, 8 & 9 Dec 2009
22. Zulkifli Y. (2009) The need for Water Demand Management for Sustaining Water Supply in Malaysia. In Hiroyasu Ohtsu and Noppadol Phienwej (eds.) Proceedings of 2009 AIT-KU Joint Symposium on Human Security Engineering. Pp. 23-30
23. Chow, M.F. and Zulkifli **Yusop** (2009) Characterisation of total suspended solids, COD and Oil & Greese in stormwater runoff from industrial site. International Conference on Water Resources, 26-27 May Langkawi.
24. Nordila A. and Zulkifli **Yusop**. (2009) Convective rainfall characteristics in Ampang, Selangor. International Conference on Water Resources, 26-27 May Langkawi.
25. Zulkifli **Yusop**. and Hartini K. (2008) Predicting stormflow impact of logging using HEC-HMS Model and design storm. In A. Anton, H. Tsuno, R. Abdul Rahman and S. Fuji (eds) Proceedings of the Sixth JSPS-VCC Seminar on Water & Wastewater Management and Technologies. Kota Kinabalu.
26. Chow M.F. and Zulkifli **Yusop** (2008) A Review of Event Mean Concentration for Urban Stormwater Runoff. In Teng T.T., Fera Fizani A.F, Norli I., Fazilah A. and Anees

- A. (eds) Proceedings International Conference on Environmental Research and Technology (ICERT'08)
27. Chow M.F. and Zulkifli **Yusop**. (2008) Urban Stormwater Quality Models: An Overall Review. *In* Teng T.T., Fera Fizani A.F, Norli I., Fazilah A. and Anees A. (eds) Proceedings International Conference on Environmental Research and Technology (ICERT'08)
  28. **Yusop**, Z., Chow, M.F. (2008) A review of event mean concentration (EMC) for urban stormwater runoff, Proc. International Conference on Environmental Research and Technology, pp. 1-6. (Scopus)
  29. Zulkifli **Yusop**., Chong M.H., Ayob K and Fadhilah Y. (2008) Rainfall-Runoff Characteristics In Oil Palm Catchment. Proceedings of International Conference Water Down Under 2008, Adelaide 14-17 April
  30. Zulkifli **Yusop**. (2008) Hydrological Considerations for Climate Change Adaptation and Mitigation: Challenges in the Context of Malaysia. International Seminar on Climate Variability, Change and Extreme Weather Events – Towards Enhancing Scientific Understanding of Climate Variability and Climate Change in Maritime Continent, 26-27 February 2008, Bangi (Extended Abstract)
  31. Fadhilah Y. , Zalina MD., Nguyen V-T-V., Zulkifli **Yusop**. (2008) Stochastic modeling of hourly rainfall process: A comparative study using cluster point-process model and Markov-Chain Model. Proceedings of International Conference Water Down Under 2008, Adelaide 14-17 April
  32. Fadhilah Y., Zalina M.D., Nguyen V-T-V and **Zulkifli Yusop**. (2007). Evaluation of Neyman-Scott Rectangular Pulse (NSRP) model for modelling hourly rainfall series. Proceedings of XII Applied Stochastic Models and Data Analysis (ASMDA2007) International Conference. Greece, 29 May- 1 June 2007.
  33. **Zulkifli Yusop**., Chan C. H., A. Katimon (2007) Runoff Characteristics and Application of HEC-HMS for Modelling Stormflow Hydrograph in an Oil Palm Catchment. IWA International Conference on Water Management and Technology Application in Developing Countries, 14-15 May 2007
  34. Nazahiyah R, **Zulkifli Yusop**. and Abustan, I. (2007) Stormwater quality and pollution load estimation from an urban residential catchment in Skudai, Johor, Malaysia. IWA International Conference on Water Management and Technology Application in Developing Countries, 14-15 May 2007
  35. **Zulkifli Yusop**., Hartini K., Kamarul Azlan M.N and Abdul Rahim N. (2006) Possible use of design storm for assessing logging impacts on stormflow. 3<sup>rd</sup> Asia-Pacific Hydrology and Water Resources Association (APHW) Conference, Bangkok 16-18 Oct.
  36. **Zulkifli Yusop**., T. Okuda, Mazlan H., T. Kondo, Norsahida S. (2005). Erosion and Nutrient Losses Estimates from a Large Watershed. In: Lee Su See and Lim Hin Pui (eds.) Proceedings Conference on Forestry and Forest Product Research (CFFPR), Kuala Lumpur, pp 99-108
  37. Mazlan H., **Zulkifli Yusop**., Ab. Latif I., Norsahida S., Helmi R, T. Okuda, S. Nishimura, M. Suzuki, T. Kondo (2005) Assessment of impacts on landscape

- development to ecological service values and goods using integrated remote sensing and GIS technique. Proceeding of Asian Conference on Remote Sensing 2005, Vietnam.
38. Okuda, T., M Suzuki, Mazlam H., **Zulkifli Yusop.**, S. Numata, S. Nakamura, T. Kondo and K. Parker (2005) Possibility of GIS application to ecosystem management in the tropics. In Mamaru Shibayama and Yasuyuki Kono (eds.) Proceedings of the First International Symposium on Area Information 2005. pp 1-9.
  39. Morisada K, Y Ohnuki, S Noguchi, Wan Rashidah W.A.K., **Zulkifli Yusop.** and C. Ahmad Salamet (2004) Impacts of selective logging on surface soil properties. In Yoosuke Matsumoto, Emi Ueda and Shigeo Kobayashi (eds.) Rehabilitation of degraded Tropical Forests, South East Asia 2004. pp 26-36.
  40. Chan, C.H. and **Zulkifli Yusop.** (2004) Runoff modeling using XPSWMM. Proceedings of the 1<sup>st</sup> International Conference on Managing Rivers in the 21<sup>st</sup> Century: Issues & Challenges. Penang, 21-23 Sept
  41. Rahmat, S.N., **Zulkifli Yusop.** and M. Mohamed (2004) Non-point source pollution loadings from developed catchments in Skudai, Johor. 1<sup>st</sup> ASEAN Junior Scientists Workshop.
  42. Chan, C.H., **Zulkifli Yusop.** and K.A. Mohd Nasir (2004) Modelling of watershed cumulative effects based on major land use using XPSWMM2000. 1<sup>st</sup> ASEAN Junior Scientists Workshop.
  43. **Zulkifli Yusop.**, Chan, C.H., Mohamed, M. and Ujang, Z (2004) Characteristics of stormflow hydrographs in an oil palm catchment. Proceedings Asia Water 2004 Conference, Kuala Lumpur.
  44. **Zulkifli Yusop.**, Abdul Rahim N. and Ian Douglas (2004) Dissolved and Undissolved Nutrient Exports from Forested Catchments in Selangor, Malaysia. In R. C. Sidle, M. Tani, Abdul Rahim N. and T.A. Tadesse (eds.) proceedings of the Forest and water in Warm, Humid Asia Workshop, International Union of Forestry Research Organization (IUFRO) Conference, Sabah, 10-12 July.
  45. **Zulkifli Yusop.**, H. Kassim, K. A. Mohd Nassir, N. Abdul Rahim (2004) Using design storms for predicting effects of logging on stormflow parameters. In R. C. Sidle, M. Tani, Abdul Rahim N. and T.A. Tadesse (eds.) proceedings of the Forest and water in Warm, Humid Asia Workshop, International Union of Forestry Research Organization (IUFRO) Conference, Sabah, 10-12 July.
  46. **Zulkifli Yusop.**, L.W. Tan, Z. Ujang, M. Mohamed and K.A. Nasir (2004). Runoff quality and pollution loadings from a tropical urban catchment. Proceedings of the International Water Association (IWA) Congress 2004, Marraketch, 19-24 Sept.
  47. Rahmat, S.N., **Zulkifli Yusop.** and M. Mohamed (2004) Storm event pollutants loadings from urban catchments. Proceedings of the Bangi 2<sup>nd</sup> World Conference on Environmental Management: Facing the Changing Conditions. Bangi, 13-15 Sept.
  48. Harun, S., Ismail, N. A. and **Zulkifli Yusop** (2004) Stochastic models for flow and rainfall simulation. Proceedings of the 1<sup>st</sup> International Conference on Managing Rivers in the 21<sup>st</sup> Century: Issues & Challenges. Penang, 21-23 Sept.

49. Adeline Ng Ling Ying and Zulkifli **Yusop** (2004). Flood Frequency Analysis: A Comparison Between Gumbel And Pearson Type III Distribution For Sungai Kelantan. Proceedings Engineering and Technology Conference 2003 (EnTech 2003) , 2004 : 103-109.
50. **Zulkifli Yusop.**, Abdul Rahim N. and Baharuddin K. (2003) Rainfall partitioning in an old growth tropical rainforest. *In* Azmy M., Ismail P., Shamsuddin I., Safiah Y. M.Y., Lim H.F., Muhammed Azmi M. I., Ab. Rasip G., Salmiah U. and Khali A.H. (eds.) Proceedings of the International Conference on Forestry and Forest Product Research (CFFPR), Kuala Lumpur: FRIM, p. 24-29.
51. **Zulkifli Yusop.** and Sukarno W. (2002) Environmental considerations for sustainable management of islands and coastal resources. *In* Zulkifli **Yusop.**, Kamarul Azlan M.N., Norhan A.R., Desa, M.N. (eds.) Proceedings the Regional Conference on Hydrology and Environment of Small Islands, Tioman, Malaysia. 29-31 May, 2000
52. **Zulkifli Yusop.** (2002) ) Hydrological attributes of a disturbed peat swamp forest. *In* Faizal Parish, Eswaran Padmanabhan, David L.C.H and Thang Hooi Chiew (eds.) Proceedings of the Regional Workshop on Prevention and Control of Fire in Peatlands, Kepong, 19-21 March
53. **Zulkifli Yusop.** and Abdul Rahim N. (2001) Streamwater quality of old growth forest catchments in Peninsular Malaysia. Proceedings of the JSPS-VCC Seminar, Kota Kinabalu.
54. **Zulkifli Yusop.** (2001) Watershed Research In The Tropics: Implications For Catchment Management. Proceeding of the International Water association Conference on Water and Wastewater Management for Developing Countries, Kuala Lumpur 29-31 Oct. pp 47-55.
55. Baharuddin K., Abd. Rahim N. and **Zulkifli Yusop.** (2000) Impacts of long haulage ground cable system on sediment and water quality. *In* Shamsuddin I., Zamah, S. and Khoo K.C. (eds.) proceedings of the Conference on Forestry and Forest Product Research: tropical Rainforest Harvesting- New Technologies Examined, Kuala Terengganu.
56. **Zulkifli Yusop.**, Abdul Rahim N. and Baharuddin K. (2000) Nutrient input-output budgets in secondary forest catchments of Bukit Tarek Experimental Watershed, Peninsular Malaysia. *In* S. Appanah, Safiah M.Y., Astinah W. J. and Khoo K.C. (eds.) Proceedings of Conference on Forestry and Forest Products Research 1997. Kuala Lumpur: Forest Research Institute Malaysia. Pp 111-123.
57. Abdul Rahim N., Saifuddin S. and **Zulkifli Yusop.** (1995) Water balance and hydrological characteristics of forested watersheds in Peninsular Malaysia. *In*: Yasunari, T. (ed.) Proc. the Second International Study Conference on GEWEX in Asia and GAME, Pattaya, pp. 303-306
58. Abdul Rahim N & **Zulkifli Yusop** (1994) Hydrological response to selective logging in Peninsular Malaysia and its implications on watershed management. *In*: *Proceedings of the International Symposium on Forest Hydrology*, Tokyo. pp 263-274.
59. Samy J., **Zulkifli Yusop.**, Lim S.F., Ahmad M.A. , Murayama S., Xavier A & Zulkifli M. (1994) Greenhouse gas inventories under specific environments in Malaysia.

- Proceedings Regional Workshop on the Scientific Development and Research Application of Greenhouse Gas Inventories*. IGBP-START Programme. Subic Bay, Philippines, 11-15 April 1994.
60. Sammori T., **Zulkifli Yusop**., Baharuddin K., Noguchi S. and Tani M. (1994) Hydrological characteristics of tropical rain forest in Peninsular Malaysia - characteristics of suspended solids transport. *Proceedings of the International Symposium on Forest Hydrology*, Tokyo, Japan, October 1994. pp 275-282.
  61. Nakashizuka, T., **Zulkifli Yusop**. and Abdul Rahim N. (1989) Vertical distribution of forests in Selangor, Malaysia. *Proceedings of the 100th Annual Meeting of Japanese Forestry Society 1989*, Tokyo.
  62. **Zulkifli Yusop**. and S. Abu Bakar (1989) An overview of water quality research/practices in forested watershed. *In: S.R. Saplaco, L. De M. Bladinda, B.N. Resurreccion and G.M. Tolentino (eds.) Proceedings of the Workshop on Standardization and Technology Transfer of Watershed Research and Management, Techniques, Practices and Terminologies* 26 Oct. - 1 Nov. 1986, Chiang Mai, Laguna, the Philippine: ASEAN-US Watershed Project, pp. 25-46.
  63. **Zulkifli Yusop**. and N. Muhamad Majid (1989) Experimental techniques in soil and hydrological research in forested watersheds. *In: S.R. Saplaco, L. De M. Bladinda, B.N. Resurreccion and G.M. Tolentino (eds.) Proceedings of the Workshop on Standardization and Technology Transfer of Watershed Research and Management, Techniques, Practices and Terminologies* 26 Oct. - 1 Nov. 1986, Chiang Mai, Laguna, the Philippine: ASEAN-US Watershed Project, pp. 116-127.
  64. Abdul Rahim N. and **Zulkifli Yusop**. (1987) Streamwater quality of undisturbed forest catchment in Peninsular Malaysia. *In: Yusuf H., Kamis A., Nik Muhamad M. and Shukri, M (eds.) Proceedings of the Workshop on Impacts of Man's Activities on Tropical Upland Forest Ecosystems*, UPM, Serdang 3 - 6 February 1986, pp. 289 - 308.

**i) Refereed/Edited National Proceedings (26) – not updated**

1. Salapour, M., Z. Yusop, M. Jajarmizadeh, S. Shahid, F. Yusof (2013) A Generalized Feed Forward Network for the Prediction of Runoff in Johor River Basin. *Proceedings of the 4 th International Graduate Conference on Engineering, Science and Humanities (IGCESH2013)*, 16-17 Apr 2013, Universiti Teknologi Malaysia, Johor Bahru, Malaysia
2. Tan Wei Lun, **Fadhilah Yusof** and Zulkifli Yusop (2012). "Fitting NHMM for Daily Rainfall Amount in Peninsular Malaysia". *Proceeding of the 1<sup>st</sup> ISM International Statistical Conference 2012*. 4 – 6 June 2012. Persada Johor. pp477 – 483
3. Interception Loss of Palm Oil Tree in Malaysia. A. A. A. Bakar, M. Lu & Z. Yusop. 22nd Annual Conference (2009). Japan Society of Hydrology and Water Resources.2009.
4. Fadhilah Y., Zalina M.D., Nguyen V-T-V and **Zulkifli Yusop**. (2007) Stochastic modelling of hourly rainfall series using markov-Chain Mixed Exponential Model.



- Proceedings Simposium Kebangsaan Sains Mmatematik ke XV. Shah Alam, 2-7 June 2007
5. **Zulkifli Yusop.**, Chan C. H., Kamarul Azlan M. N. (2006) Upscaling On-Site Model Parameters for Assessing Cumulative Watershed Effects of Runoff. Proceedings of the National Water Conference, Port Dickson, 13&14 July
  6. Chong, M.H., **Zulkifli Yusop.** , Ayob K (2006) Rainfall-Runoff Characteristics in a Small Oil Palm Catchment. Proceedings of the National Water Conference, Port Dickson, 13&14 July.
  7. Nordila A., **Zulkifli Yusop.** and Zalina M.D. (2006) Characterization of Convective Rain in Klang Valley. Proceedings of the National Water Conference, Port Dickson, 13&14 July.
  8. **Zulkifli Yusop.**, Geoffery J., Saw A. L., T. Norul S. Preliminary study on throughfall spatial variability and stemflow characteristics under oil palm catchment. Proceedings of the National Water Conference, Port Dickson, 13&14 July.
  9. Fadhilah Y , Zalina M.D., Nguyen V-T-V, **Zulkifli Yusop.** (2006) Stochastic modeling of rainfall using Neyman-Scott Rectangular Pulse (NSRP) Model. Proceedings of the National Water Conference, Port Dickson, 13&14 July.
  10. Siti Nazahiya R., and Zulkifli Yusop. (2006) Storm water quality from urban residential catchment in Skudai, Johor. Proceedings of the National Water Conference, Port Dickson, 13&14 July.
  11. **Zulkifli Yusop.**, Chan C. H., Ayob K. and Mushairry M. (2005). Hydrological Properties of Forested and Oil Palm Catchments. Proceedings of the Seminar Kejuruteraan Awam, Univ Teknologi Malaysia, Johor
  12. Siti Nazahiyah R. and **Zulkifli Yusop.** (2005) Modeling of Storm Water Runoff From Residential and Commercial Catchments in Skudai, Johor Using Storm Water Management Model (SWMM). Proceedings of the National Civil Engineering Conference (NASEC) 2005: 564-573.
  13. Chan, C.H., Zulkifli Yusop and Chong M.H. (2005) Rainfall-runoff characteristics and modeling of an oil palm catchment. *In:* Jamaludin M.J., Kadir A., Azahan A., Kadaruddin A. and Muhamad Rizal R. Proceedings of Pengurusan Persekitaran 2005.
  14. Siti Nurhidayu A.B. and Zulkifli Yusop. (2005) Water quality and non-point source pollution loading from oil palm catchments. *In:* Jamaludin M.J., Kadir A., Azahan A., Kadaruddin A. and Muhamad Rizal R. Proceedings of Pengurusan Persekitaran 2005.
  15. **Zulkifli Yusop.** S. N. Rahmat, Kamarul Azlan M. N., M. Mohamaed (2004) Runoff quality and pollution loadings from residential and commercial catchments in skudai, Johor. Proceedings of the Seminar Kejuruteraan Awam, Univ Teknologi Malaysia, Johor
  16. **Zulkifli Yusop.**, Yong W.K. and Jamaludin S (2003) Assessment of hydrological drought using run analysis and Herbst method in Pekan, Pahang. *In* Wan Ruslan Ismail, Narimah Samat, Aziz Abdul Majid, Moha Asri Abdullah & Anisah Lee Abdullah (eds.) Proceedings of the Conference on Society, Space and Environment in a Globalised World. Penang.

17. **Zulkifli Yusop.**, Chan, C.H. & Abdul Rahim N. (2003) Modelling of stormflow hydrographs in forested catchments using HEC-HMS. In Jamaluddin M.J., Ismail S., Kadir A., Mohd Jailani M.N., Kamaruzaman S. and Md. Fauzi A. (eds.) *Pengurusan Persekitaran 2003*, 484-493.
18. **Zulkifli Yusop.** Cham S.Y. & Chong J.H. (2003) Rainfall interception by old rubber stands. In Jamaluddin M.J., Ismail S., Kadir A., Mohd Jailani M.N., Kamaruzaman S. and Md. Fauzi A. (eds.) *Pengurusan Persekitaran 2003*, 272-279.
19. **Zulkifli Yusop.** and Maketab M. (2002) Translating results of catchment research into management perspective: A challenge. *In* Jamaluddin M. J. and Mohd Jailani M.N. (eds.) *Proceedings National Seminar on Environmental Management : Current development and Future Planning*, UKM 14-15 August 2002.
20. Maketab M. and **Zulkifli Yusop.** (2002) Design of sediment oxygen demand (SOD) "in-situ" measuring chamber and its application in several rivers. *In*: Jamaluddin M. J. and Mohd Jailani M.N. (eds.) *Proceedings National Seminar on Environmental Management : Current development and Future Planning*, UKM 14-15 August 2002
21. Mohd Shahwahid H.O., Awang Noor A.G., Abdul Rahim N. and **Zulkifli Yusop.** (1998) Watershed protection versus timber production in the Hulu Langat Forest Reserve. *In* Lee S.S., Dan Y.M., Ian, D.G. and Joshua B. (eds.) *Proceedings of the Malaysia-United Kingdom Programme Workshop on Conservation, Management and Forest Resources*, 21-24 Oct. 1996, pg. 290-299
22. Abdul Rahim N., **Zulkifli Yusop.** and Baharuddin K. (1994) Effectiveness of conservation measures in selective logging practices. *In*: S. Appanah, K.C. Khoo, H.T. Chan, H.T. Hong (eds.) *Proceeding of Conference on Forestry and Forest Products Research*, FRIM, November 1-2, 1993.
23. **Zulkifli Yusop.** (1994) Effects of supervised and unsupervised selective logging methods on hydrologic nutrient losses in Malaysia. *In*: Ghulam M.H. (ed.) *Proceedings of the Soil Science Conference of Malaysia 1991*. Genting Highland, 3-4 March 1991
24. **Zulkifli Yusop.** and Saifuddin S. (1993) Litterfall and nutrient fluxes in a logged-over forest of Bukit Tarek Forest Reserve. *In*: B. Aziz and A.R. Hamid (eds.) *Proceedings of Soil Science Conference of Malaysia 1992*, Kuala Terengganu, 27-28 April, Malaysian Society of Soil Science, pp. 147-156.
25. Amir H.S., Klaus, B. and **Zulkifli Yusop.** (1993) Conservation and silvicultural measures undertaken in opening of forest land for cattle industry in Sintok, Kedah. *In*: B. Aziz and A.R. Hamid (eds.) *Proceedings Soil Science Conference of Malaysia 1992*, Kuala Terengganu, 27-28 April, Malaysian Society of Soil Science, pp 230-253.
26. **Zulkifli Yusop.**, Abdul Rahim N. and Baharuddin K. (1991) Hydrological impacts of forestry and land-use practices in Malaysia. *In*: S. Appanah, F.S.P. Ng and Roslan I. (eds.) *Proceedings of the Conference on Forestry and Forest Products Research*, 3-4 Oct. 1990, Forest Research Institute Malaysia, Kepong, KL, pp 96-106.

j) Paper Presented at International Conferences/Seminars (32) – not updated

1. Sahat, S., Z. Yusop, M Askari & A D Ziegler (2016) Estimation of Soil Erosion Rates in Oil Palm Plantation with Different Land Cove. Soft Soil Engineering International Conference 2015 (SEIC2015). IOP Conf. Series: Materials Science and Engineering 136 (2016) 012086 doi:10.1088/1757-899X/136/1/012086.
2. Lloyd L. and Z. Yusop (2013) A macro focus with macro impact: Exploration of initial abstraction coefficient ratio in soil conservation services (SCS) curve number (CN) methodology. 8<sup>th</sup> International Symposium on Digital Earth. 26-29 Aug 2013, Kuching, Sarawak.
3. Sairan, F., Idrus, D., Md Som, H., Mohd Kamil, N.A.F., Yusop, Z., Md Din, M.F. (2009) Assessment of the residential perception on the sewerage systems in Taman Ungku Aminah. International Conference on Industry Best Practices – Water Malaysia 2009. 19-21 May, Kuala Lumpur
4. Soffee, N., Ujang, Z. and Yusop, Z. (2009) Evaluation of Kubang Pasu public water supply in the context of the new WHO water safety plans – A case study. International Conference on Industry Best Practices – Water Malaysia 2009. 19-21 May, Kuala Lumpur.
5. Soffee, N. Ujang, Z. and Yusop, Z. (2009) The state of the art in management approach for assuring safe drinking water. International Conference on Industry Best Practices – Water Malaysia 2009. 19-21 May, Kuala Lumpur
6. Zulkifli Yusop (2009) Water Supply Issues and Management Reform in Malaysia. The 1<sup>st</sup> Workshop on Water Supply Management System and Social Capital. Bandung 20 March.
7. Mazlan H., T. Okuda, **Zulkifli Yusop.**, S. Numata, S. Nishimura, M. Suzuki and T. Kondo (2005) Assessment of impact of landscape development on ecological services values and goods using integrated remote sensing and GIS techniques. International Workshop on The Landscape Level Rehabilitation of Degraded Tropical Forests. Tsukuba, Japan. (Abstract) Feb 2005
8. Okuda, T., Mazlan H., **Zulkifli Yusop.**, S. Numata, T. Kondo and K. Parker (2005). Application of GIS for sustainable forest management – linkage between the ecosystem management and forest rehabilitation. International Workshop on The Landscape Level Rehabilitation of Degraded Tropical Forests. Tsukuba, Japan. (Abstract).
9. **Zulkifli Yusop.** and Maketab M. (2005) Roles of government agencies in environmental awareness activities: Experience of the Malaysian International Hydrology Program. Best of Both World Conference on Environmental Education for Sustainable Development, Kuala Lumpur, 6-8 Sept.
10. **Zulkifli Yusop.**, T. Okuda., Mazlan H. and S. Numata (2005) Estimation of soil and nutrient losses for quantifying watershed services. International Workshop on The Landscape Level Rehabilitation of Degraded Tropical Forests. Tsukuba, Japan.
11. Ahmad, U.K., Ujang, Z., **Zulkifli Yusop.**, Periaiah, N. and Selvaraju, G. (2004) Analysis of humic acid and fulvic acids from peat water samples employing solid phase extraction and fluorescence detection. Asia Water 2004 Conference, Kuala Lumpur.

12. Chan, C.H., **Zulkifli Yusop**. and K.A. Mohd Nasir (2004) Modelling of watershed cumulative effects based on major land use using XPSWMM2000. 1<sup>st</sup> ASEAN Junior Scientists Workshop.
13. Rahmat, S.N., **Zulkifli Yusop**. and M. Mohamed (2004) Non-point source pollution loadings from developed catchments in Skudai, Johor. 1<sup>st</sup> ASEAN Junior Scientists Workshop.
14. Maketab M., Siti Nazahiyah R. and **Zulkifli Yusop** (2004) Non-Point Source Pollution Loadings from Residential And Commercial Area in Johor, Malaysia. 8<sup>th</sup> International Diffuse Pollution Conference, Kyoto Conference, Japan, 25-29 October
15. **Zulkifli Yusop**., Maketab M. and Kamarul Azlan M. N. (2003) Water Quality and Pollution Loadings Assessment for Tebrau Catchment, Johor. East-Asia Regional Seminar on River Restoration, Kuala Lumpur 13-15 January 2003
16. **Zulkifli Yusop**., Tan L.W., Kamarul Azlan M.N. and Maketab M. (2002) Stormwater quality and pollutant loadings from an urban catchment in Johor Bahru. Water Environmental Planning Seminar- Technologies of Water Resources Management, Kuala Lumpur, 15&16 October
17. Maketab M, **Zulkifli Yusop** and Zaini U. (2002) Urban river rehabilitation- water quality and pollution loads of Sg. Tebrau, Johor. Water Environmental Planning Seminar- Technologies of Water Resources Management, Kuala Lumpur, 15&16 October
18. **Zulkifli Yusop**., Abdul Rahim N. and Baharuddin K. (2001) Rainfall partitioning in an old growth tropical rain forest. International Conference on Forestry and Forest Products Research (CFFPR 2001), Kuala Lumpur, 1-3 Oct.
19. Chappell, N.A., **Zulkifli Yusop**., Abdul Rahim N., Tych Wlodek and Baharuddin, K (2000) Modelling spatially-significant effects of selective, tropical forestry on water, nutrient and sediment flows. Paper presented at Symposium & Workshop on Forest-Water-People in the Humid Tropics: Past, Present and Future Hydrological Research for Integrated Land and Water Management, Bangi. 30 July – 4 August.
20. **Zulkifli Yusop**., Abdul Rahim N. and Baharuddin K. (2000) Stream chemistry of rainforest catchments on metamorphic rocks. Paper presented at XXI International Union of Forestry Research Organizations (IUFRO) World Congress, Kuala Lumpur, 7-12 August.
21. Mohd Awang, Zulkifli Yusop, Leong C.P. Baharuddin Kasran (1999) Rainfall chemistry in Peninsular Malaysia and its potential impacts on soil and vegetation: a case study. Workshop on Ecological Impact Monitoring of Acid Deposition in East Asia, Beijing, Sept 1999.
22. **Zulkifli Yusop**, Abdul Rahim N., and Baharuddin K (1998) Evapotranspiration loss from a second growth forest of Peninsular Malaysia. Paper presented at International Conference on Hydrology and Water Resources of Humid Tropics, Ipoh, Malaysia, 24-26<sup>th</sup> Nov. 1998.
23. **Zulkifli Yusop**. and Baharuddin K (1997) Nutrient fluxes via litterfall and canopy leaching in a secondary tropical rainforest site. Paper presented at 2nd. International

- Conference on Environmental Chemistry and Geochemistry in the Tropics, Kuala Lumpur, 7-11 April 1997.
24. Mohd Shahwahid H.O., Awang Noor A.G., Abdul Rahim N., **Zulkifli Yusop.** and Razani U. (1996) The economics of forested catchment management. Paper presented at Workshop Malaysia-UK Programme for the Conservation, Management and Development of Forest Resources. FRIM, Kepong, KL 21-24 October 1996.
  25. Mohd Shahwahid H.O., Awang Noor G., Abdul Rahim Nik, **Zulkifli Yusop.** and Shahrudin Ismail (1995) Economic benefits of watershed protection and trade-offs, Paper presented at Environmental Economics Research Seminar organised by the Environmental Economic Research Programme for South East Asia (EEPSEA) at Singapore 24-26 May 1995.
  26. **Zulkifli Yusop.**, Abdul Rahim N. and Baharuddin K. (1993). Selective logging in Peninsular Malaysia: Impacts on streamwater chemistry. Paper presented at the International Symposium on Forest Hydrology. Canberra, 22-26 Nov. 1993.
  27. **Zulkifli Yusop.**, Saifuddin S. and Baharuddin K. (1993) Subsoil compaction of logging road and recovered site in a logged-over forest. Paper presented at Soil Science Conference Malaysia 1993, Penang, 19-21 April 1993.
  28. Samori,T., Naguchi, S., Tani, M., **Zulkifli Yusop.** & Baharuddin K (1993) Hydrological characteristics in tropical rain forest in Malaysia- suspended sediment and water quality. Paper presented at 104th. Annual Meeting of Japanese Forestry Society. Morioka, Japan.
  29. **Zulkifli Yusop.** and Abdul Rahim N. (1991) Logging and forest conversion: can we minimize their impacts on water resources? Paper presented at ASEAN Seminar on Land-Use Decisions and Policies: Will Tropical Forest Survive Their Impact?? AIFM, Penang 28-30 Oct. 1991
  30. **Zulkifli Yusop.**, Anhar S. and Baharuddin K. (1990) Postlogging effects on suspended solids and turbidity - five years observation. Paper presented at Workshop on Watershed Management and Development. UPM, IHP and UNESCO. Kuala Lumpur, 19 - 23 Feb. 1990.
  31. **Zulkifli Yusop.** (1989) Effects of selective logging methods on dissolved nutrient exports in Berembun Watershed, Peninsular Malaysia. Paper presented at the Regional Seminar on Tropical Forest Hydrology. FRIM, IHP and UNESCO. Kuala Lumpur, 4 - 8 Sept. 1989.
  32. Abdul Rahim N. and **Zulkifli Yusop.** (1988) Statistical analysis of water quality data using computer softwares. Paper presented at the Training Course on Computer Application in Watershed Management. ASEAN-US Watershed Project. Kuala Lumpur, 14 - 19 Nov. 1988.

**k) Paper at National Seminars/Conferences (36) - not updated**

1. Baharim, N.B, Yusop, Z., W Z Wan Muhd Tahir, M. Askari, I. Yusoff, Z. Othman, M. R. Zainal Abidin (2013) Sediment quality of core bottom sediment in hypereutrophic

- reservoir: A case study of Sembrong Reservoir, Peninsular Malaysia. 1<sup>st</sup> International Conference on Non Point Sources Pollution (NPS2014), Kuala Lumpur, 14 & 15 May.
2. Muniandy, J.M., Z. Yusop and M Askari (2014). Nutrient and sediment transport from two different agriculture plots. 1<sup>st</sup> International Conference on Non Point Sources Pollution (NPS2014), Kuala Lumpur, 14 & 15 May.
  3. Alias, N., A. Goonetilleke, P Egodawatta, Z. Yusop (2014) Investigation on first flush phenomenon in urban catchments in Gold Coast, Australia. 1<sup>st</sup> International Conference on Non Point Sources Pollution (NPS2014), Kuala Lumpur, 14 & 15 May.
  4. Yakubu, M.L. and Z. Yusop (2014) The use electrical conductivity and pH as indicator for non-point source pollution on urban roads. 1<sup>st</sup> International Conference on Non Point Sources Pollution (NPS2014), Kuala Lumpur, 14 & 15 May.
  5. Adham, M.I., S.M. Shirazi, F. Otman and Z Yusop (2014). Assessment of runoff potentiality for non point source pollution of Melaka watershed in Malaysia using SCS and statistical analysis. 1<sup>st</sup> International Conference on Non Point Sources Pollution (NPS2014), Kuala Lumpur, 14 & 15 May.
  6. Wan Ibrahim, W.Y, A.N. M Ludin, and Z. Yusop (2014) Assessing spatio temporal land use and land cover change in major river basins in Iskandar Malaysia. 1<sup>st</sup> International Conference on Non Point Sources Pollution (NPS2014), Kuala Lumpur, 14 & 15 May.
  7. Zulkifli Yusop & Abdull Rahim Mohd Yusoff (2009) Asas fiqh bagi mengukuhkan pelestarian alam sekitar. Symposium Kebangsaan Fiqh Sains dan Teknologi 2009. Johor Bahru, 10&11 Dec 2009.
  8. Zati Sharip and **Zulkifli Yusop**. (2007) The status of lake eutrophication in Malaysia. Proceedings of Colloquium on Lakes and Reservoir Management: status and Issues, 2&3 August, Putrajaya. Pp 24-34.
  9. Siti Aishah S. and **Zulkifli Yusop**. (2007) Rainfall interception by young *Hopea odorata*. Proceedings of Conference on Forestry and Forest Product Research (CFFPR-2007), 27-29 November 2007, Kuala Lumpur.
  10. Chong, M.H. , **Zulkifli Yusop**. and Geoffery, J.G. (2007) Estimating Evapotranspiration in Oil Palm Catchments Using Short-Time Period Water-Budget Method. Paper presented at World Water Day Seminar. Kuala Terengganu, 14&15 April 2007.
  11. **Zulkifli Yusop**. , Ismail A. (2007) Policy Reform for Meeting Future Water Demand. World Water Day Seminar. Kuala Terengganu, 14&15 April 2007.
  12. Siti Nazahiyah R., **Zulkifli Yusop**. and Ismail A. (2007) First flush load of urban storm runoff in Skudai, Johor . AWAM 2007, Penang
  13. **Zulkifli Yusop**. And Zaini Ujang (2006) Managing non-point source pollution from a catchment perspective. Invited speaker at national Conference on Agro Environment 2006, MARDI. Penang.
  14. Mohamed, M., **Zulkifli Yusop**. and Ujang Z. (2003) Urban river rehabilitation – Sungai Tebrau and Sg. Segget, Johor, Malaysia. ENVIRONMENT 2003, Penang, 18-19 Feb.
  15. **Zulkifli Yusop**. (2002) Hydrological attributes of a disturbed peat swamp forest. Workshop on Prevention and Control of Fire in Peatlands, Kepong, 19-21 March

16. Maketab, M.& **Zulkifli Yusop** (2002) Urban river rehabilitation – pollution levels and peculiarities of Sg. Tebrau, Johor. Institute of Engineers Malaysia, Fourth Annual Water Resources Colloquium, Ampang, 22 June.
17. **Zulkifli Yusop.**, Maketab M., Kamarul Azlan M.N., Sobri H. and Areshwhina N. (2002) Point source and non-point source pollution assessment in Tebrau and Segget Catchment, Johor. National Seminar on Pollution Prevention and Water Quality Improvement of Sungai Tebrau and Sungai Segget, Johore, 29-30 Oct.
18. Kamarul Azlan M.N, **Zulkifli Yusop.**, Sobri H. and Areshwhina N. (2002) Flow augmentation scheme for lower Tebrau Basin. National Seminar on Pollution Prevention and Water Quality Improvement of Sungai Tebrau and Sungai Segget, Johore, 29-30 Oct.
19. **Zulkifli Yusop.** and Maketab M. (2001) Translating results of catchment research into management perspective: A challenge. National Seminar Environmental Management 2001, UKM 14-15 August 2001.
20. Maketab M. and **Zulkifli Yusop.** (2001) Design of sediment oxygen demand (SOD) “in-situ” measuring chamber and its application in several rivers. National Seminar Environmental Management 2001, UKM 14-15 August 2001.
21. Ayob K., Ahmad Khairi A.W. and **Zulkifli Yusop.** (2001) Studies on hydrological dynamic of a drained peat basin using time series model. National Workshop on Ecological and Environmental Modelling. USM, Penang, 3-4 Sept.
22. **Zulkifli Yusop.** (2000) Hydrological impacts of forestry activities: Malaysian experience. Paper presented at Seminar Kejuruteraan Awam (SEMKA 2000), Kuantan, Pahang, 20-21 May.
23. **Zulkifli Yusop.**, Shamsuddin I., Baharuddin K. and Ahmad C.S. (1999) Runoff estimate from the North Selangor Peat Swamp Forest. Paper presented at FRIM’s Conference on Forestry and Forest Products Research (CFFPR) 1999 Series on Water: Forestry and Landuse Perspectives. FRIM, HTC and WWF Malaysia, 31 March and 1 April 1999.
24. Abdul Rahim N. and **Zulkifli Yusop.** (1999) Hydrological impacts of forestry and land-use activities: Malaysian and regional experience. A keynote paper presented at FRIM’s Conference on Forestry and Forest Products Research (CFFPR) 1999 Series on Water: Forestry and Landuse Perspectives. FRIM, HTC and WWF Malaysia, 31 March and 1 April 1999.
25. M. Shahwahid O., Chew C.G., **Zulkifli Yusop.** and Baharuddin K (1999) The external cost of conversion of highland forested watershed. Paper presented at FRIM’s Conference on Forestry and Forest Products Research (CFFPR) 1999 Series on Water: Forestry and Landuse Perspectives. FRIM, HTC and WWF Malaysia, 31 March and 1 April 1999.
26. **Zulkifli Yusop.** and Azman H. (1999) Managing water resources: Forestry’s perspective. Paper presented at Conference on Asset Management, 29-30<sup>th</sup> June 1999, Miri, Sarawak.

27. **Zulkifli Yusop.** and Baharuddin K. (1999) Hydrological considerations for sustainable management of peat swamp forests in Pahang and Selangor. Paper presented at Workshop on Sustainable and Integrated Management of Peat Swamp Forests in Peninsular Malaysia, Kuantan, Pahang. 16-18 November 1999
28. **Zulkifli Yusop** (1998) Fenomena Iklim. Kertas kerja dibenteng dalam Kursus Pengenalan Kebakaran Hutan. FRIM/Jabatan BOMBA. Jun 1998.
29. **Zulkifli Yusop.** and Baharuddin K (1998) Stream-bed profile and erosion rates from undisturbed forest catchments in Sungai Weng Experimental Basin, Baling, Kedah. Paper presented at Bengkel ke 4 Kajian Kesan Pembalakan Terhadap takungan Wakil dan Waduk Muda/Pedu Kedah, UKM, Bangi, 26-27 Mei, 1998.
30. Mohd Shahwahid H. O., Chew C.G., **Zulkifli Yusop.** and Baharuddin K. (1998) The on-site cost of soil erosion: theory and application to Cameron Highland. Paper presented at Workshop on Forestry Economics and Policy: R&D Towards Achieving Sustainable Forest Management, UPM, Serdang, 10-11 Nov. 1998.
31. **Zulkifli Yusop** (1997) Preliminary results on sediment dynamic in stream channel at Muda/Pedu Experimental Basin. Paper presented at "Bengkel ke III Kajian Kesan Pembalakan Terhadap Takungan Wakil dan Waduk Muda/Pedu, Kedah, UPM, 21-22 April 1997.
32. **Zulkifli Yusop.**, Abdul Rahim N. And Baharuddin K. (1997) Nutrient input-output budgets in secondary forest of Bukit Tarek Experimental Watershed. Paper presented at the Fourth Conference on Forestry and Forest Product Research. FRIM, KL. 2-4 October.
33. **Zulkifli Yusop.**, Baharuddin K and Abdul Rahim N (1997) Sediment yield from selected catchments in Cameron Highland. Paper presented at Workshop on Local Scale Hydrological Processes in Inlands, Highlands and Urban Areas in Malaysia: Needs for Future Direction. Humid Tropics Water Centre for South East Asia and Pacific, IHP (Malaysia) and UNESCO. Kuala Lumpur 12-14 November, 1997.
34. Baharuddin K., Abdul Rahim Nik & **Zulkifli Yusop** (1996) Hasil endapan di kawasan pertanian tanah tinggi. Paper presented at "Seminar dan Bengkel Hidrologi Dataran Tinggi". UTM, KL, 30-31 Julai 1996
35. **Zulkifli Yusop.**, Abdul Rahim N. and Baharuddin K. (1995) Improved logging technique for minimising impacts on soil and water. Paper presented at the First Workshop on Logging Impacts Study in Muda/Pedu Catchment, Kedah. UTM, Skudai, Johor Bahru. 23rd January 1995.
36. **Zulkifli Yusop.** & Abdul Rahim N. (1994) Impacts of forest harvesting and conversion on water attributes. Paper presented at Sarawak's Water Resources Conference, Sarawak, 8-10 August 1994.
37. Abdul Rahim N. & **Zulkifli Yusop.** (1994) Environmental Impact Assessment (EIA) Review for forest logging. Paper presented at Workshop on Environmental Impact Assessment in Malaysia- an update. Kuching, Sarawak, 3-5 Feb. 1994.



38. **Zulkifli Yusop.** & Abdul Rahim N. (1994) Nutrient exports from secondary forest catchments of Bukit Tarek Experimental Forest. Paper presented at *Soil Science Conference 1994*. P.J. 18-19 April 1994.
39. **Zulkifli Yusop.** (1994) Quality of surface water. A note presented at Basic Course in Water Resources Assessment, Johor Bahru, 25-27 July 1994.
40. Abdul Rahim N., **Zulkifli Yusop.** and Baharuddin K. (1991) Watershed management: effects of selective logging. Paper presented at IRPA National Seminar for Fifth Malaysian Plan. Penang, 16-19 December 1991.

#### 1) Research/Technical Report (10)

1. **Zulkifli Yusop.** (2006) Studies on Evaluation of Logging Impacts on Soil Erosion and Watershed Ecosystem: Results on evapotranspiration and catchment water yield. Eco-frontier Fellowship Program report submitted to the Ministry of Environment, Japan.
2. **Zulkifli Yusop.** (2005) Studies on Evaluation of Logging Impacts on Soil Erosion and Watershed Ecosystem: Results on soil erosion and nutrient losses. Eco-frontier Fellowship Program report submitted to the Ministry of Environment, Japan.
3. **Zulkifli Yusop.,** Maketab M., Kamarul Azlan M.N., Fadhilah Y., Zalina D., Chan C.H. and Siti Nazahiyah R. (2005) Quantification and management of watershed cumulative effects. Final Report submitted to MOSTI.
4. **Zulkifli Yusop.** (2004) Studies on Evaluation of Logging Impacts on Soil Erosion and Watershed Ecosystem – Preliminary Results. Eco-frontier Fellowship Program report submitted to the Ministry of Environment, Japan
5. **Zulkifli Yusop.,** Chan Chee Hing & Kamarul Azlan Mohd Nasir (2003) Penentuan kesan penebangan hutan ke atas parameter aliran ribut. Research report submitted to Research Management Centre, UTM. Vot 71628.
6. **Zulkifli Yusop.,** Ting L.F., Zaini U., and U. Kalthom A. (2002) Characterization of natural organic matter for drinking water production. Research report submitted to Research Management Centre, UTM. Vot 71639.
7. Bruce, A., Abdul Rahim, N., Mohd Shahwahid, H.O. Awang Noor A. G. and **Zulkifli Yusop.** (1998) Timber Production versus Watershed Protection In The Humid Tropics: An Overview of the Issues in Malaysia. Environmental Economics Programme Discussion Paper Series. International Institute for Environmental Development, UK.
8. Appanah, S., Shamsuddin I., **Zulkifli Yusop.,** Ismail H., Baharuddin K., Azman, H. and Chong P. F. (1998) "Ulasan mengenai kontrovosi kegiatan pembalakan berhampiran kawasan tadahan air Hutan Simpan Sg. Lalang, Semenyih, Selangor, Darul Ehsan". Submitted to Ministry of Primary Industries.
9. **Zulkifli Yusop.** (1996) *Nutrient Cycling in Secondary Rain Forest Catchments of Peninsular Malaysia*. PhD. Thesis, University of Manchester.
10. **Zulkifli Yusop.** (1990) Effects of logging on streamwater quality and input-output budgets in small watersheds in Peninsular Malaysia. M.sc Thesis, UPM

**m) Poster Paper (not updated)**

1. Ismail, A. Z., Z. Yusop, Z.M. Yusoff, K. A. M. Nassir (2013) Flood simulation and mapping: A case study for Kota Tinggi. JSPS-ACP Comprehensive Seminar, Kyoto. 28 Oct
2. **Zulkifli Yusop.** (2006) Studies on evaluation of logging impacts on soil erosion and watershed ecosystem: Results on Evapotranspiration and Water Yield. The Eco-Frontier Fellowship Workshop 2005, Tokyo, Japan, March, 14.
3. **Zulkifli Yusop.** (2005) Studies on evaluation of logging impacts on soil erosion and watershed ecosystem: Results on Soil and Nutrient Loss. The Eco-Frontier Fellowship Workshop 2004, Tokyo, Japan, March
4. **Zulkifli Yusop.,** T. Okuda, M. Hashim, K. Yoshida and S. Numata (2004) Studies on evaluation of logging impacts on soil erosion and watershed ecosystem. The Eco-Frontier Fellowship Workshop 2003, Tokyo, Japan, 3 March.
5. Noguchi, S., Abdul Rahim N., **Zulkifli Yusop,** Baharuddin K, M. Tani, Y. Tsuboyama and T. Sammori (2000) Rainfall-runoff responses to storms at Bukit Tarek Experimental Watershed, Peninsular Malaysia. XXI IUFRO World Congress, Kuala Lumpur, 7-12 August.
6. Tani, M., Abdul Rahim N., **Zulkifli Yusop.,** Y. Ohtani, T. Watanabe and S.Noguchi (2000) Evaluating evapotranspiration and surface conductance of a tropical rainforest in Peninsular Malaysia. XXI IUFRO World Congress, Kuala Lumpur, 7-12 August.

**n) Consultancy Report (24)**

1. Integrated Lake Basin Management for Tasik Sembrong and Batang Ai, Sarawak for DID (2017)
2. Impact of climate changes on water resources for selected plantation areas in Malaysia for paddy, rubber and oil palm. For National Hydraulic Research Institute Malaysia. (2015)
3. Water Resources Study in Gugusan FELDA Sahabat, Lahad Datu, Sabah. Submitted to FELDA (Dec 2011)
4. Study on The Potential of Rainwater Utilisation in Supplementing Water Demand in Industry – In Terms of Quantity & Quality. Submitted to NAHRIM (Nov 2010)
5. Desk Study on River Buffer Zone in Malaysia: Policy, By Laws and Incentives. Submitted to NAHRIM (Sept 2010)
6. Optimization of Rainfall Observation Network on Model Calibration and Application for the Johor, Batu Pahat, and Muar River Basins. Submitted to Department of Irrigation and Drainage of Malaysia (2010)
7. Study on the Performance of Resam (*Dicranopteris linearis*) and Vetiver Grass (*Chrysopogon zizanioides*) for soil protection. For Department of Irrigation and Drainage of Malaysia, ( Submitted Oct 2010).

8. Detailed Environmental Impact Assessment (DEIA) for the Proposed Development of Integrated Port at Ranche-Ranche, Federal Territory of Labuan. Submitted to the Department of Environment/Department of Marine Peninsular Malaysia for Marine Department Malaysia (2008)
9. Macro Environmental Impact Assessment for Forest Management Unit (FMU) in Johor. For Johor State Forestry Department, (2008)
10. Rekabentuk Terperinci Sistem Saliran Bandar Senai, Johor Bahru, Johor. For Jabatan Pengairan dan Saliran, Kuala Lumpur, (2008)
11. **Zulkifli Yusop.** (2005) Heavy metals assessment in the South East Pahang Peat Swamp Forest. For UNDP/GEF/FRIM/Forestry Department.
12. **Zulkifli Yusop.** (2005) Water Quality Sampling Design In Peat Swamp Forest. Technical Note Submitted to UNDP/GEF/FRIM/Forestry Department
13. UTM (2005) Lake Study. For National Hydraulic Research Institute Malaysia (NAHRIM)
14. UTM (2005) Penilaian pantas kualiti air alam hutan paya gambut. Technical Note submitted to GEF/Forestry Department.
15. Detailed EIA Proposed Development of Ulu Jelai Mixed Pumped Storage Hydroelectric Project. Submitted to TNB Research. (2003)
16. UTM (2003) The study of pollution prevention and water quality improvement of Sungai Tebrau and Sungai Segget. Submitted to the Department of Environment Malaysia.
17. UTM (2002) Laporan penilaian geologi, geoteknik dan hidrologi di persekitaran tadahan Sg Air Hitam Besar Gunung Pulai, Johor Darul Takzim. Consultant report submitted to Johore State Government
18. UTM (2002) Preliminary EIA for the proposed construction and completion of the Research Center for Fresh Water Fish at Glemi Lemi, Jelebu, Negeri Sembilan. Submitted to the Department of Environment Malaysia.
19. **Zulkifli Yusop.,** Villy K. and Baharuddin K. (1999) Hydrological characteristics of the North Selangor Peat Swamp Forest. A consultancy report for Malaysia-DANCED Project on Sustainable Management of Peat Swamp Forest.
20. **Zulkifli Yusop.** (1999) Hydrological attributes of the Southeast Pahang Peat Swamp Forest (SEPPSF). A consultancy report for Malaysia-DANCED Project on Sustainable Management of Peat Swamp Forest.
21. **Zulkifli Yusop.** (1998) Hydrological considerations for sustainable management of peat swamp forests in the Klias Peninsula, Sabah. A consultancy report for Wetland International.
22. Abdul Rahim N., **Zulkifli Yusop.** & Baharuddin K (1997) Laporan teknikal cadangan pembalakan di dalam Tadahan Sungai Chereh, Kuantan, Pahang - impak ke atas sumber air (Consultancy report submitted to ASPA).
23. ITTO & FRIM (1994) *Economic case for natural forest management.* Consultant report submitted to International Tropical Timber Organization. 113 pp.

24. FRIM (1990) *Preliminary environmental impact assessment report for Perangin Dairy Farm, Kubang Pasu District, Kedah*. 131 pp.

**o) Module**

1. **Zulkifli Yusop**. et al (2005) Module for National River Expedition 2005 for Secondary School.
2. Zulkifli Yusop (2003) Nota Kuliah Hidrologi
3. Zulkifli Yusop (2002) Nota Kuliah pengurusan Sumber Air Bersepadu

**p) Article in Newspaper & Magazines**

1. Sungai Asset Kehidupan. Utusan Malaysia. 11/04/07
2. Fenomena Ribut dan Kemarau. Utusan Malaysia, 19/02/07
3. Atasi Perosak Alam Sekitar. Utusan Malaysia, 02/03/07
4. **Zulkifli Yusop**. (1991) Pencemaran: mengganggu pengurusan air. *Dewan Masyarakat*. November 1991.

**L). SUPERVISION**

**a. Completed Master by Research as Main Supervisor (10)**

1. Hartini Kasmin (2003) Kesan pembalakan ke atas aliran ribut. MA993037 (Main supervisor)
2. Chan Chee Hing (2005) Modelling watershed cumulative effects on runoff based on major land uses. MA 033006 (Main supervisor)
3. Siti Nazahiyah Rahmat (2005) Non-point source pollution from residential and urban catchments. MA 033009 (Main supervisor)
4. Siti Nurhidayu Abu Bakar (2007) Stormwater quality and pollution loadings from oil palm catchments. MA 033017 (Main supervisor)
5. Chong Meng Hui (2008) Comparison of Rainfall Runoff Characteristics and Evapotranspiration in oil palm catchments. MA 043023 (Main supervisor)
6. Nordila Ahmad (2008) Characterization of convective rainfall in Kelang Valley. (Main supervisor)
7. Goh Yee Chai (2011) Optimization of Rainfall Observation Network in Kelang Valley. (Main supervisor)
8. Kharatunissa Mokhtar (2011) Quantification and Modelling of Sediment Loading in Oil Palm Catchment. (Main supervisor)
9. Suhaila Sahat (2013) Erosion rate from sites of different land cover intensity in oil palm plantation. MA093047 (Main supervisor)

10. Ahmad Zuhdi Ismail (2015). Effect of Tide on Flood Modelling and Mapping in Kota Tinggi. (Main supervisor)

**b. Completed Master by Research as Co-Supervisor (5)**

1. Nurul Azura Ismail (2005) Aggregation Simulation Model of Flow and Rainfall Series. MA 023001 (Co-supervisor)
2. Hazizi Esa (2014) Influence of cell size on soil loss estimation in universal soil loss equation (USLE) model. (Co-Supervisor)
3. Norizzati Salleh (2017) Trivariate Copula for Flood Frequency Analysis in Johor River (Co-supervisor)
4. Nurul Ain Syuhada Abu Bakar (2016) Stormwater runoff and pollutant loading from plantation at tributaries of Sungai Johor. (Co-supervisor).
5. Asmida Kamaruddin (2017) Stormwater quality and pollutant Loading from selected Catchments in Johor River Basin (Co-Supervisor)

**c. Completed Master by Course Work as Main Supervisor (5)**

1. Adeline N. L. Y (2002) Flood frequency analysis: A comparison between Gumbel and Pearson Type III distribution for Sungai Kelantan
2. Tan Lai Wai (2002) Stormwater quality and pollutant loads of Sungai Pandan, Johor.
3. Chia Yun Lee (2002) Stormwater quality and pollutant loads of Sungai Tampoi, Johor
4. Nor Armani Filzah Mohd Kamil (2007) Assessment of sewage treatment system and the resident perception in Taman Ungku Tun Aminah
5. Mohammad Javad Asadsangabifard (2013) Temporal and spatial variations of Grey-water (Sullage) Properties from Commercial and Residential areas. (MA 111002)

**d. Master On-Going: 2**

**e. Completed PhD – As Main Supervisor (16)**

1. Siti Aishah Shamsuddin (2011): Influence of Forest Plantation Establishment on The Hydrological Characteristics In Bukit Tarek Experimental Watershed, Selangor (Main supervisor)
2. Chow Ming Fai (2011) Quantification and modeling of non-point sources pollution in residential, commercial and industrial catchments. (Main supervisor)
3. Geoffery Jame Garesu (2013) Partitioning of rainfall and flowpath processes in small oil palm catchments. PA053002 (Main supervisor)
4. Mohsen Salapour Goodrazi (2014) Flood frequency analysis using bivariate Copula functions. PA 103058 (Main supervisor)
5. Harisawenni (2014) Rainfall disaggregation using Barlett Lewis Rantangular Pulse model (Main supervisor)

6. Norbakhiah Baharim (2015). Spatial and temporal variation of water and sediment quality in Semberong Reservoir. (Main supervisor)
7. Mahadi Lawan Yakubu (2015) Characterization and Forensic Modelling of Road Runoff as a Source of Heavy Metals' Pollution in Areas. (Main supervisor)
8. Halinawati Hirol (2016) Meshfree formulation of Kinematic wave for channel flow routing PA0730 (Main supervisor)
9. Lloyd Ling (2016) Deriving the Initial Abstraction Ratio for Runoff Prediction in Peninsular Malaysia. (Main Supervisor)
10. Morteza Ferozi (2017) Trend Analysis in Extreme daily and Monthly Rainfall. (Main supervisor)
11. Ali Hekmat (2017) Isogeometric analysis of depth averaged flow and contaminant transport equations in meandering open channels (Main Supervisor)
12. Josilva A/L Muniandy (2017) Experimental and Modeling Approach for Quantifying Evapotranspiration and Nutrient losses from Agricultural Plot (Main Supervisor)
13. Wong Chee Leong (2018) Modelling of large scale hydrological variability in Peninsular Malaysia.
14. Suraya Romali (2018) Flood damage and risk assessment for urban area in segamat
15. Nur Suhada Abd rashid (2019). Behaviour of soil water movement under different stage of oil palm trees.
16. Norhafizi Md Lani (2019) Combining reliability and cost benefit analyses of Rainwater Harvesting System for Commercial Buildings.

#### **f. Completed PhD as Co-supervisor (6)**

1. Tan Mou Leong (2016) Remote Sensing Based Evaluation of Uncertainties on Modelling of Streamflow Affected by Climate Change (Co-Supervisor)
2. Fahad Salim M. Alahmadi (2016). Flood Modelling of Ungauged Arid Volcanic Environment at Wadi Bathan in Al Madinah (Co-supervisor)
3. Afzan Hudzori (2017) Optimization model of large scale rainwater harvesting system. (Co-supervisor)
4. Mohd Khairul Bazli Mohd Aziz (2016) Optimization of raingauges network.
5. Nur Syereena Nojumuddin (2016) Stochastic generation of hourly rainstorm event
6. Tan Wei Lun (2016) Space time rainfall modelling using Hidden Markov Model

#### **g. PhD On-going**

4 candidates

#### **Undergraduates:**

More than 80 theses

## PhD Committee/Panel

Junjiro Nageshi (2001-2004) National University of Singapore

### M) AS EXAMINER

PhD= 38

1. Mohd Harun Abdullah (2001) – FKA, UTM
2. Hassan Basyri Daulay (2002) – FKA, UTM
3. Supiah Shamsuddin (2003) – FKA, UTM
4. Mir Saujul Islam (2009) – Faculty of Science and Technology, UKM.
5. Nor Rohaizah Binti Jamil (2011) – UKM
6. Zaki Zainudin (2011) – Faculty of Chemical Engineering (UTM)
7. Mohammadreza Gharibreza (2012) – Faculty of Science (UM)
8. Mohd Aminur Rashid Mohd Amiruddin Arumugam (2013) – USM: Modelling the effects of infiltration within hexagonal modular permeability pavement using flow - 3D. (USM)
9. Siti Hidayah Abu Talib (2013) Study on the influence of sediment characteristics on deposition pattern at Bukit Merah Reservoir. (USM)
10. Aweng A/L/ Eh Rak (2013) Integrating River Ecosystem Attributes for River Health Assessment (UTM)
11. Ahmad Farid bin Abu Bakar (2014) Characterization of river water, sediment and soil, metals fate and transport modelling and recommendations in gold mining catchment (UM)
12. Siti Hidayah Abu Talib (2014- Reviva) Study on the influence of sediment characteristics on deposition pattern at Bukit Merah Reservoir. (USM)
13. Steven Poh Tze Wei (2014) Soil based infiltration with simulation of rainfall-runoff modelling for ungauged catchment: Case study of Sungai Kedah (USM)
14. Uca Sideng (2014) Kesan Perubahan guna tanah ke atas hakisan dan peri laku hidrologi (UKM)
15. Kogila Vani Annammala (2015) Impact of Forest Disturbance, Fragmentation and Restoration on Erosion and Sediment Sources and Transport within the Segama River Catchment, Eastern Sabah (UMS)
16. Nuradila Rusli (2015) Hydrological impact of large scale land use conversion from rubber to oil palm plantation. (UTM, Faculty of Built Environment)
17. Suhaida Ismail (2015) Empirical Mode Decomposition with KPCA and LSSVM for River Flow Forecasting. (UTM, Dept. Mathematic)
18. Steven Poh Tze Wei (2015) Soil based infiltration with simulation of rainfall-runoff modelling for ungauged catchment: Case study of Sungai Kedah (USM) – Re- viva

19. Orji Kalu Uka (2015) Modelling of a Water Treatment Reactor for Enhanced Electrocoagulation Process in the Removal of Lead from Mning Lake Water. University Teknologi Petronas (29/9/15)
20. Ali Nikahd Ghosiraie (2015) FGHT UTM
21. Mohammad Ghazi Bin Ismail (2016) Effisiensi Pengurusan Air Tidak Berhasil (NRW) dalam Meningkatkan Sekuriti Bekalan Air di Negeri Kelantan. USM
22. Noramidah Hamidon (2016) Future Reservoir Performance Projection Using Integrated Models in the Framework of Climate Change. FKA, UTM
23. Steven Poh Tze Wei (2016) Soil based infiltration with simulation of rainfall-runoff modelling for ungauged catchment: Case study of Sungai Kedah (USM) – 3rd- viva
24. Ahmed Saud Mohammed (2017) Evaporation Water Balance using Statistical Approach in Anbar Governorate, Iraq (Faculty of Engineering USM)
25. Mohammad Ghazi Bin Ismail (2016) Effisiensi Pengurusan Air Tidak Berhasil (NRW) dalam Meningkatkan Sekuriti Bekalan Air di Negeri Kelantan. USM (second Viva)
26. Khamis Naba Sayl (2017). Rainwater Harvesting Quantification and Planning in an Arid Region using Geographic Information System and Remote Sensing Technologies. UKM. 9 Nov 2017
27. Mubasher Hussain (2018) Climate Change Impact on Water Resources Availability and Hydropower Production in Sarawak, Malaysia. Universiti Teknologi Petronas (UTP), 5 Feb 2018
28. Zulfaqar Sa'adi (2018). Spatiotemporal changes in climate and hydrology of Sarawak under different representative concentration pathway scenarios. UTM, May 2018.
29. Mohd Fairuz Bachok (2018) Artificial Neural Network Model for Predicting Windstorm and the potential Damage. UTM, 11 June 2018
30. Mohd Hilmi P Ramli (2018) Ramalan Hasil Air dalam Tadahan Sungai Kelantan. UTM, 12 June 2018
31. Nor Amirah Abu Seman (2018) Flow Pattern and Hydraulic Characteristics of Hexagonal Modular as a Porous Bed Green Drainage System. USM.
32. Roselan Abdul Rahman (2018) Pengaruh morfometrik dan air bumi ke atas hidrologi tadahan. (USM).
33. Mohammed Sanusi Shiru (2019) Modelling impacts of climate change on meteorological drought during cropping seasons and groundwater sustainability. SKA, UTM
34. Tewodros Tesfaye Woldemariam (2019) Impact of Climate Change and anthropogenic actions on streamflow characteristics, hydropower and encironmental flow of OMO-Gibe River Basin in Ethiopia (IIT, Dehli)
35. Nurulhani Roslan (2020) Tropical Rainfall Estimation using the Single Polarization Weather Radar Inversion, FABU, UTM.
36. Lindah Roziani Jamru (2020) Characterization of Remote Sensing Data of Tropical Rainforest Canopies and Stand Structure for Modelling Rainfall Interception. FABU, UTM.



37. Babaginda Ba'iyah (2021) Mapping and modelling of land use land cover changes to water yield using remote sensing and climate change data. FABU, UTM.
38. Afrizal (2021) Sistem Pengurusan Air Pertanian untuk Kemampanan Pertanian Padi. FABU, UTM

### Master= 26

1. Mohd Faizal Tajul Baharuddin (2002) – FKA, UTM
2. Fatmawati Adam (2002) – FKKS, UTM
3. Noraliani Alias (2003) – FKA, UTM
4. Halinawati Hirol (2003) – FKA, UTM
5. Te Shu Harn (2004) – FKKS, UTM
6. Jazrul Nizam Jahaya (2004) – Faculty of Environmental Studies, UPM
7. Salleh Bakar (2004) – USM
8. Mahyun Abdul Wahab (2006) – Faculty of Engineering, USM
9. Fauzi Baharuddin (2007) - Faculty of Engineering, USM
10. Ooi Aik Ta (2008)- Faculty of Environmental Studies UPM
11. Othman Deris (2008) Effects of Forest Harvesting on River Water Quality and Physical Soil Properties in Gunung Benom Forest Reserve, Raub Pahang. UPM
12. Parisa Parvanneh (2010) GIS based modelling of the changes in water level due to flood walls. UPM
13. Roslanzairi Bin Mostapa (2011) – Faculty of Engineering, USM
14. Sazali Osman (2011) – School of Civil Engineering USM
15. Najihah Dor, Jan 2012 – School of Civil Engineering, USM
16. Hanizan Mukhtar, Feb 2012 – School of Civil Engineering USM
17. Mohd Adam bin Omar Mar 2012 – Pusat Pengajian Ilmu Kemanusiaan USM
18. Chong Siam Yee Dec 2012 – UPM: Development of simple equation to estimate the net rainfall under nearly to fully closed canopy stands.
19. Mohd Aizat Arifin Jan 2014- UPM: The relationship between soil pH and river quality in a logged over lowland forest
20. Foo Yen Sin. Impact of Landscape Changes on Ecosystem Service Value. UTM-FGHT. 2015
21. Syazwan Aisal Mohd. Kajian unjuran hidro-iklim di lembangan sungai pahang menggunakan model SWAT. 2016, UKM
22. Jeremy Andy Anak Dominic Daun. Sedimentation in Stormwater Management and Road Tunnel (SMART) Holding Pond. UPM, Aug 2016
23. Kishan Raj Pillai a/l Mathialagan. Determination of Aquifer Depth and Source of Contamination in Groundwater in Parts of Kelantan Using Silica Thermometry and Stable Isotopes. UMK, Nov 2017
24. Nur Aziera Binti Zainuddin Treated Sewage Sludge as an Organic Fertilizer and Assessing Phytoremediation Capability of Jarak (*Ricinus communis*). UPM, Nov 2017

25. Azirah Adnan (2020) Economic Evaluation of Rainwater Harvesting System for Educational Institution. UiTM.
26. Abd Ramliza Yahudin Mahli (2021) Assessing the hydrological change upon the prospective tropical expressway using airborne LIDAR and high resolution photograph. FABU, UTM.

#### **N) INTELLECTUAL PROPERTY**

1. Software on Rainwater Harvesting – Reliability and Cost Benefit Analysis.
2. Artificial Rainfall Simulator for Urban Environmental Studies
3. PES-SiO<sub>2</sub> Hollow Fiber Membrane for Bisphenol A (BPA) Removal. (Silver Medal,
4. Technique and software for optimization of raingauge network (Bronse Medal, 2010)

#### **O) IMPORTANT COURSES ATTENDED – not updated**

1. Sustainable Development Goals: Priorities and Solutions. 7-8 November, Westin, Kuala Lumpur
2. Consensus Building for Environmental Sustainability, 23 & 24 May 2012 by Professor Larry Susskind of MIT. Venue - UTM, KL.
3. Water Diplomacy, 13-17 June 2011, Tufts University, Massachusetts, USA
4. EIA Induction Course, Putrajaya. 13-14 Oct 2010. Organized by the Department of Environment Malaysia
5. Workshop on Engineering and Business. 11-12 Oct 2010. Organised by ICC, UTM
6. The five disciplines of Innovation, July 2010. Stanford Research Institute and MOHE, Kuala Lumpur
7. Training for Trainers (TOT) on Legislation and Institution Arrangements in IWRM, 9-14 July 2007
8. Kursus Kaedah Penyeliaan dan Penilaian Pengajian Siswazah, 4 & 5 April 2005
9. PTK6 – 12-28 April 2004
10. Proof Reading - 3-5 June 2003
11. Critical Thinking – 20 May 2003
12. Recent Advances in the Modelling of Extreme Rainfalls and Floods, April 2002
13. Seven Habits of Most Successful People, Malacca, 18-20<sup>th</sup> June 2002
14. Academic Management and Advisory – 21-22 June 2001
15. Effective Communicative in Learning – 25 September 2000
16. Scientific Writing, UTM 28-29 March 2000
17. Course in MS ISO9000, FRIM, 17-22/11/1997.
18. Course on Partnering to Commercialize Research. FRIM/ATRO Associates. April 1997
19. Training Workshop on the Valuation of Non-Timber Forest Goods and Services. Malaysia-UK Forest Biodiversity Management Program. JPSM/UPE/MOSTE, Kepong, KL. 27/11-3/12/1994

20. Forestry Research and Management Course, FRIM/FAO/GTZ, 15-27 February 1993.
21. Pembangunan Insan dalam Kecemerlangan Penyelidikan. FRIM. Tanjung Bidara, Melaka, 1-4 March 1992
22. Training Course on Effective Writing Skills, GTZ/FRIM, Genting Highland, 28-30 November 1988.
23. Short Course on Water Resource Engineering. UKM. 12/6-1/7/1988.
24. Training Course on Hydrology and Plant Physiology. Forestry and Forestry and Forest Product Research Institute, Tsukuba Japan. Feb. 1986
25. Water Resources Assessment. IHP/UTM. July 1985