



MUHAMMAD BARZANI GASIM

Academic Qualifications	1998-2003: Ph.D in Environmental Management, Universiti Putra Malaysia 1981-1984: M.Sc in Structural Geology, Universiti Kebangsaan Malaysia 1973-1978 : B.E. in Geology Engineering, U P N (Indonesia)		
Current Professional Member (please attach certificate/proof)	Geological Society of Malaysia Hidrological Society of Malaysia Malaysian Water Partnership	1995-present 1997-present 2000-present	Life Member Member Member
Current Teaching Responsibilities	EVT 712 Water Pollution Control DTS 2283 Quality Control	M SC. Course (Session 14/15) UITM Diploma Course (Session 14/15) FRIT, UniSZA	24 Students 27 Students
Current Administration Responsibilities	Deputy Director (ESERI) 2014-2016		
Brief Career History	<p>November 1984-June 1995 Lecturer, Earth Science Department, Faculty of Science and Natural Resources, UKM Sabah Campus</p> <p>1996-1997 Lecturer, Environmental Science Program, Faculty of Natural Resource Sciences, UKM Bangi</p> <p>June 1997-2003 Lecturer at Environmental Science Programme, School of Environment and Natural Resource Sciences, FST, UKM</p> <p>February 2005–July 2007 Senior Lecturer, Environmental Science Programme, School of Environment and Natural Resource Sciences Faculty of Science and Technology, UKM Bangi</p> <p>August 2007–April 2011, Associate Professor, School of Environment and Natural Resource Sciences, Faculty of Science and Technology, UKM</p> <p>May 2011- July 2013, full Professor, School of Environment and Natural Resource Sciences, Faculty of Science and Technology, UKM</p> <p>Since June 2014, as Principle Research Fellow at East coast Environmental Research Institute (ESERI), Universiti Sultan Zainal Abidin, Gong Badak Campus, 21300 Kuala Terengganu, Terengganu.</p>		

Research Interests and Areas	<p>Risk assessment of flood hazard</p> <p>Environmental Assessment of water pollution</p> <p>Assessment of extreme rainfall based on world climate change phenomenon</p> <p>Physico-chemical changes in natural and disturbed environment</p> <p>Soil erosion, soil bio-engineering and slope stability</p> <p>Evaluation of land use change to the environment</p> <p>Environmental Hydrology and geology</p>		
Selected Supervision	<p>Physico-chemical study of Tasik Chini Catchment with emphasize on feeder rivers, Pahang (M.Sc)</p> <p>Water quality study and selected heavy metals at Tasik Chini's feeder river, Pahang (M.Sc)</p> <p>Land use study and their impact to water quality of Linggi River, Negeri Sembilan (M.Sc)</p> <p>Land use change, soil and water quality assessment of the Tasik Chini, Pahang (Ph.D)</p> <p>Hydrodynamic modeling and storm management of the Damansara River Basin, Selangor (M.Sc)</p> <p>Characteristics of extreme rainfall and flood hazard management of the Pahang River (M.Sc)</p> <p>Soil and water quality study at catchment of Sg. Bertam, Cameron Highlands, Pahang (M.Sc)</p> <p>The influence of sea water intrusion at east coast of Peninsular Malaysia: A case study in Marang River, Terengganu</p> <p>The influence of sea water intrusion at east coast of Peninsular Malaysia: A case study in Paka River, Terengganu</p>	<p>Tan Chan Chok</p> <p>Norlida Bt. Mohamed Hamim</p> <p>Farah Wahidah MD. Basar</p> <p>Sujaul Islam Mir</p> <p>Nor Azlina Abd. Aziz</p> <p>Pan Ia Lun</p> <p>Norhidayah MD. Redzuan</p> <p>Nur Hidayah Ariffin</p> <p>Nadila Abd. Khalid</p>	<p>2007</p> <p>2008</p> <p>2009</p> <p>2009</p> <p>2010</p> <p>2012</p> <p>2012</p> <p>2013</p> <p>2013</p>

	<p>Groundwater Pattern Assessment Based on Rainfall Distribution Using Integrated Modeling Technique in Terengganu, Malaysia</p> <p>Flood risk Simulation Using XPSmm along Terengganu River, Malaysia</p> <p>Identification of Environmental Awareness Level Among Secondary School Students in Terengganu, Malaysia</p> <p>Impact of Climate Change on Sea Level Rise in Terengganu Coast Line, Terengganu, Malaysia</p> <p>Water Quality Study and Environmental Degradation of the Sg. Nerus, Kuala Terengganu, Terengganu, Malaysia</p> <p>Determination of carcinogenic polycyclic Aromatic Hydrocarbons (PAH) in air samples in Irbid, North Jordan</p>	<p>Abdullahi Musa Garba</p> <p>Sani Garba Durumin Iya</p> <p>Ali Auwalu Rabiu</p> <p>Nursyuhada Binti Hairoma</p> <p>Hassan Mohammed Ali Alssageer</p> <p>Ahmad Sati Mohammad Algawadreh</p> <p>Tuan Siti Nur Fatimah Bt Tuan Son (Co-Supervisor)</p> <p>Noorjima Bt Abd Wahab (Co-Supervisor)</p>	<p>2015</p> <p>2015</p> <p>2015</p> <p>2016</p> <p>2016</p> <p>2016</p> <p>2016</p> <p>2016</p>
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Conference & Training	Conference/Seminar/Workshop/Course	Role	Date and Venue	
	Environmental Science and Technology Conference (ESTEC2009)	Presenter	7-8 December 2009, Permai Inn, Kuala Terengganu	
	Regional Conference on Environmental and Earth Resources: Conservation & Sustainability	Presenter	7-8 December 2009, MS Garden Kuantan, Pahang	
	Hydrological Risks and Climate Change	Participant	9-13 February 2009 Newcastle University, UK	

	Bengkel Pemurnian Penerbitan Ke Jurnal Berimpak Tinggi	Participant	10-12 December 2009 The Regency Tanjung Tuan Dickson	Beach Reso
	4 th International Congress of the Islamic World Geographers. University of Sistan and Baluchestan	Co-Presenter	14-16 April 2010, Zahidan, Iran	
	National Geoscience Conference 2010	Presenter	11-12 June 2010 Grand Blue Wave Hotel, Shah Alam, Selangor	
	2 nd International Conference on Human Habitat and Environment.	Presenter	15-16 June 2010, Nilai Spring Resort Hotel, Putra Nilai, Negeri Sembilan	
	3 rd Indonesia-Malaysia Joint Geoheritage Conference	Presenter	6-8 August 2010, Universitas Pembangunan Nasional "Veteran" Jogjakarta-Indonesia	
	FORUM II SEADPRI 2010: Climate Change Adaptation and Spatial Planning: Assessment and Communication of Vulnerability	Participant	5 January 2010 PURI PUJANGGA, UKM	
	Kursus Persediaan Penulisan Syarahan Perdana	Participant	17 May 2012 Equatorial Hotel, Bangi	
	2nd International Conference on Water Resources (ICWR 2012).	Presenter	05-09 November 2012, Langkawi, Kedah	
	4th PPSP International Conference 2013.	Presenter	19 March 2013, UKM	
	Persidangan Pengurusan Bencana Banjir	Presenter	14-16 February 2015, Kubang Kerian, Kelantan	
	Bengkel Penstrukturan Kod Kursus dan Proforma Kursus Baharu,FRIT, UniSZA	Participant	15-17 Februari 2015 Tok Aman Bali Beach Resort Kelantan	
	Minggu Penyelidikan dan Pertandingan Inovasi UniSZA 2015	Presenter	14-16 April 2015 Dewan Perdana UniSZA	
	9th World Congress Water Resources Management in a Changing World: Challenges and Opportunity.	Presenter	June 10-13, 2015, Grand Cevahir Hotel, Istanbul, Turkey	
	Second International Conference Science, Engineering & Environment – See 2016	Presenter	November 21-23, 2016, Osaka, Japan	
Research & Publications	<u>Research Grant</u> Impact of Climate change on sea level rise in Terengganu.			

FRGS, RM 101,000.00 (2014-2017), Main Researcher

Analisis Perubahan Plan Sungai bagi Pemetaan Kesan Banjir dan Sebagai Penentu kepada Pengurusan Banjir di Sungai Pahang, Malaysia.

FRGS Pasca Banjir, RM 64,200.00 (April-Disember 2015), Co Researcher

Kesan Hakisan Tebing dan Sisi sungai akibat Luruan air Banjir 2014: Keperluan Garis Panduan Pembangunan Zon Penampungan Sungai di Malaysia.

FRGS Pasca Banjir, RM 85,200.00 (April-December 2015), Co Researcher

Salt Intrusion to Groundwater due to Sea Level Rise in Terengganu.

UKM YSD, RM 15,000.00 (2015-2017), Co Researcher

Kajian Penyediaan Kertas Kabinet Pengurusan Bencana Banjir

Kementerian Pendidikan Malaysia (KPM), RM 100,000.00, (June-December 2015), Co Researcher

Determination of Heavy Metals to Freshwater Fishes in Sungai Kelantan. July 01, 2016 December to December 2017. DPU, RM 22,000.00, Co Researcher

The Effect of Toxicity of Heavy Metals on the Freshwater Fish: Case Study in Bauxite Mining Area, Pahang Malaysia. August 01, 2016 to July 31, 2019. Co Researcher

Selected Journal

Othman Jaafar, Mohd. Ekhwan Toriman, S.A. Sharifah Mastura, **Muhd. Barzani Gasim**, Pan Ia Lun, Pauzi Abdullah, Mohd Khairul Amri Kamarudin & Nor Azlina Abdul Aziz. 2010. Modelling the impacts of Ringlet Reservoir on Downstream Hydraulic Capacity of Bertam River using XPSWMM in Cameron Highlands, Malaysia. *Research Journal of Applied Sciences* 5(2): P. 47-53. ISSN: 1815-932X.

Muhd. Barzani Gasim, Ismail B. Sahid, Sahibin Abd. Rahim & Ekhwan Toriman. 2010. Characteristics of history, morphology and landform of the Dungun area, Terengganu, Malaysia with special reference to Bukit Bauk. *Asian Journal of Earth Sciences* 3(4): P. 213-221. ISSN: 1819-1886.

Muhd. Barzani Gasim, Salmijah Surif, Mazlin Mokhtar, Joy Jacqueline Pereira, Mohd. Ekhwan Hj. Toriman, Sahibin Abd. Rahim & Chong Huei Bee. 2010. Analisis Banjir Disember 2006: Tumpuan di Kawasan Bandar Segamat, Johor. *Sains Malaysiana* 39(3): 353–361. ISSN: 0126-6039.

Mohd. Ekhwan Toriman, Othman A. Karim, Mazlin Mokhtar, **Muhd. Barzani Gasim**, & Md. Pauzi Abdullah. 2010. Use of Infowork RS in Modeling the Impacts of Urbanisation on Sediment Yield in Cameron Highlands, Malaysia. *Nature and Science*, 8 (2): 67-73.

Sujaul Islam Mir, **Muhd. Barzani Gasim**, Sahibin Abd. Rahim & Mohd Ekhwan Toriman. 2010. Soil loss assessment in the Tasik Chini catchment, Pahang, Malaysia. *Geological Society of Malaysia Bulletin* 56, p. 1 – 7. ISSN: 983-99102-2-1.

Mohd Ekhwan Toriman, Md. Pauzi Abdullah, Mazlin Bin Mokhtar, **Muhd. Barzani**

Gasim, Othman Karim. 2010. Surface Erosion And Sediment Yields Assessment From Small Ungauged Catchment Of Sungai Anak Bangi Selangor. *Malaysian Journal of Analytical Sciences* 14(1): P. 12-23. ISSN: 1394-2506.

Muhd. Barzani Gasim, BS Ismail, Sujaul-Islam Mir, Sahibin Abd. Rahim and Mohd. Ekhwan Toriman. 2011. The Physico-Chemical Properties of Four Soil Series in Tasik Chini, Pahang, Malaysia. *Asian Journal of Earth Sciences* 4(2): 75-84. ISSN: 1819-1886.

Mohd. Ekhwan Toriman, Norbaya Hashim, Abd. Jalil Hassan, Mazlin Mohktar, Hafizan Juahir, **Muhd. Barzani Gasim** and Md. Pauzi Abdullah. 2011. Study on the impact of Tidal Effect on Water Quality Modelling of Juru River, Malaysia. *Asian Journal Scientific Research* 4(2): 129-138. ISSN 1992-1454

Sahibin Abd. Rahim, Wan Mohd. Razi Idris, Zulfahmi Ali Rahman, Tukimat Lihan, **Muhd. Barzani Gasim**, Mohd. Nizam M. Said & Kang Ling Xing. 2011. Status fiziko-kimia tanah tapak Pusat Penyelidikan UKM, Tasik Chini, Pahang. *Sains Malaysiana* 40(2). P. 101-110. ISSN 0126-6039.

Sujaul, I.M., Ismail B.S., **Muhd. Barzani Gasim**, Mohd Ekhwan, T. and Sahibin, A.R. 2011. Assessment of Land Use and Land Cover Changes in the Tasik Chini Catchment Area, Pahang, Malaysia Using the GIS. *Advances in Environmental Biology*, 4(3): 404-413. ISSN 1995-0756

Ismail BS, Sujaul-Islam Mir, **Muhd. Barzani Gasim**, Sahibin Abd. Rahim and Mohd. Ekhwan Toriman. 2011. The Physico-chemical properties of four soil series in Tasik Chini, Pahang, Malaysia. *Asian Journal of Earth Sciences* 4(2): 75-84 ISSN 1819-1886

Muhd. Barzani Gasim, Salmijah Surif, Sahibin Abd. Rahim, Ainon Hamzah, Md. Pauzi Abdullah, Mohd. Ekhwan Toriman, Mazlin Mokhtar. 2011. Development and Land use change in the Semenyih River Basin and their impact, Selangor, Malaysia. *The Arab World Geographer* 14(2): 205-214. ISSN 1480-6800

Mohd. Ekhwan Toriman, Mazlin Mokhtar, **Muhd. Barzani Gasim**, Rahmah Elfithri, Othman Karim, Mokhtar Jafar. 2011. River regulation and its impact on river channel planform changes. *Journal of Engineering and Applied Sciences* 6(6): 428-432. ISSN: 1816-949X

Mohd. Ekhwan Toriman, Khairul Nizam, Sharifah Mastura, **Muhd. Barzani Gasim**, Nor Azlina Aziz, Mohd. Fuad Mat Jali. 2011. Modelling flood inundation in river catchment using hydrologic and geographical Information System (GIS) simulation approach. *Journal of Engineering and Applied Sciences* 6(6): 423-427. ISSN: 1816-949X

Muhammad Barzani G., Sahibin Abdul Rahim, Mohd Ekhwan Toriman and Diyana Ishnin. 2011. Kegagalan cerun di Bukit Antarabangsa, Ampang, Selangor dan hubungannya dengan sifat fizik tanah. *Malaysian Journal of Analytical Sciences* 15(2): P. 138-149. ISSN: 1394-2506.

Mohd Ekhwan Toriman, Mazlin Bin Mokhtar, Rahmah El-fithri, Nor Azlina Abdul Aziz, Md. Pauzi Abdullah and **Muhd. Barzani Gasim**. 2012. Impact of Climate Change on Regional Hydroclimate Projection in Peninsular Malaysia. *Journal of Environmental Science and Engineering B* 1 (1): 41-45. ISSN 2162-5271

Mohd Ekhwan Toriman, Mohd. Amri Kamruddin, **Muhd. Barzani Gasim**, Mokhtar Jaafar, Nor Azlina Abdul Aziz and Pan Ia Lun. 2012. Water quality Status and Hydrological analysis in upper Tropical River, Malaysia. *International Journal of Agriculture and Crop Sciences* 4 (2): 33-39. ISSN 2227-670X

Muhd. Barzani Gasim, Mazlin Mokhtar, Salmijah Surif, Mohd Ekhwan Toriman, Sahibin Abd. Rahim and Pan Ia Lun. 2012. Analysis of Thirty Years Recurrent Floods of the Pahang River, Malaysia. *Asian Journal of Earth Sciences* 5 (1): 25-35. ISSN 1819-1886

M.E. Toriman, **Muhd. Barzani Gasim**, Zulkifli Yusop, Ismail Shahid, S.A. Sharifah Mastura, Pauzi Abdullah, Mokhtar Jaafar, Nor Azlina Abdul Aziz, M.K.A. Kamarudin, Othman Jaafar, Othman Karim, Hafizan Juwahir. 2012. Use of 137CS activity to investigate sediment movement and transport modeling in river coastal environment. *American Journal of Environmental Science* 8(4): 417-423. ISSN1553-345X

M. Sujaul Islam, B.S. Ismail, **G. Muhd. Barzani**, A.R. Sahibin and T. Mohd Ekhwan. 2012. Hydrological Assessment and Water Quality Characteristics of Chini Lake, Pahang, Malaysia. *American-Eurasian J. Agric. & Environ. Sci.*, 12 (6): 737-749. ISSN 1818-6769

I.M. Sujaul, **G. Muhd. Barzani**, B.S. Ismail, A.R. Sahibin and T. Mohd Ekhwan. 2012. Estimation of the rate of soil erosion in the Tasik Chini Catchment, Malaysia using the RUSLE model integrated with the GIS. *Australian Journal of Basic and Applied Sciences* 6(12): 286-296. ISSN 1991-8178

Fawaz Al-badaii, **Muhd. Barzani Gasim**, Mazlin Mokhtar, Mohd. Ekhwan Toriman and Sahibin Abd. Rahim. 2012. Water-Pollution Study Based on the Physico-chemical and Microbiological Parameters of the Semenyih River, Selangor, Malaysia. *The Arab World Geographer* 15(4): 316-332. ISSN: 1480-6800

Muhd. Barzani Gasim, Sahibin Abd. Rahim, Wan Mohd Razi Idris, Tukimat Lihan, Zulfahmi Ali Rahman, Mohd Ekhwan Toriman. 2013. Flux of Nutrients and Heavy Metals to Tasik Chini through Erosion from Sungai Melai Sub-Catchment, Chini, Pahang, Malaysia. *Environmental Earth Sciences* 68(3): 889-897. ISSN 1866-6299

Muhd. Barzani Gasim, M.E. Toriman, Mushrifah Idris, Pan Ian Lun, M.K.A. Kamarudin, A.A. Nor Azlina, Mazlin Mokhtar and S.A. Sharifah Mastura. 2013. River Flow Conditions and Dynamic State Analysis of Pahang River. *American Journal of Applied Sciences* 10 (1), 42-57. ISSN: 1546-9239

Abul Bashar Bhuiyan, Mazlin B. Mokhtar, Mohd Ekhwan Toriman, **Muhd Barzani Gasim**, Goh Choo Ta, Rahmah Elfithri & Muhammad Rizal Razman. 2013. The Environmental Risk And Water Pollution: A Review From The River Basins Around The World. *American-Eurasian Journal of Sustainable Agriculture*, 7(2): 126-136. ISSN 1995-0748

Sujaul I. M., Ismail B. S., **Muhammad Barzani G.**, Sahibin A. R. and Mohd Ekhwan T. 2013. Hydrological assessment and suspended sediment loading of the Chini Lake catchment, Pahang, Malaysia. *International Journal of Water Resources and Environmental Engineering* 5(6): 303-309. ISSN 1991-637X.

M. Sujaul Islam, B.S. Ismail, **G. Muhd. Barzani**, A.R. Sahibin and T. Mohd Ekhwan. 2013. Hydrological assessment and suspended sediment loading of the Chini Lake catchment, Pahang, Malaysia. *International Journal of Water Resources and Environmental Engineering*. Vol 5(6): 303-309. ISSN 1991-637X

Fawaz Al-Badaii, Mohammad Shuhaimi-Othman and **Muhd Barzani Gasim**. Water Quality Assessment of the Semenyih River, Selangor, Malaysia. *Journal of Chemistry*, Volume 2013 (2013), Article ID 871056, 10 pages.

Mohd Ekhwan Toriman, A. C. Er, Q. Y. Lee, Sharifah Mastura S. A., Fuad Mat Jali, Mazlin Mokhtar, Rahmah Elfithri, **Muhd Barzani Gasim**, Z. Yusop, Norazlina Abdul Aziz, Habibah Ahmah & Hamzah Jusoh. 2013. Paddy Production and Climate Change Variation in Selangor, Malaysia. *Asian Social Science; Vol. 9 (14)*: 55-62. E-ISSN 1911-2025.

Shamin Aizat Abdul Rashid, **Muhd. Barzani Gasim**, Mohd. Ekhwan Toriman, Hafizan Juahir, Mohd Khairul Amri Kamarudin, Azman Azid, and Nor Azlina Abd Aziz. 2013 (Published 2014). Water Quality Deterioration of Jinjang River, Kuala Lumpur: Urban Risk Case Water Pollution. *The Arab World Geographer / Le Géographe du monde arabe* Vol 16(4): 349-362. ISSN: 1480-6800.

Auwalu Rabiul Ali, Mohd E. Toriman, **Muhd. Barzani Gasim**. 2014. Academic Achievement in Biology with Suggested Solutions in Selected Secondary Schools in Kano State, Nigeria. *International Journal of Education and Research* Vol. 2 (11): 215-224. ISSN: 2201-6740 (Online).

Musa G. Abdullahi, **Muhd Barzani Gasim**, Iliyasu Garba and Sani Garba D/Iya. 2015. A Multi variate Cointegration Analysis for Groundwater Pattern Recognition; Based on Rainfall Distribution in Terengganu, Malaysia. *International Journal of Life Sciences Research* 3(1): 1-12. ISSN 2348-3148

Muhd. Barzani Gasim, Mohd. Ekhwan Toriman and Hafizan Juahir. 2015. Phenomenon of Slope Failure Occurrences along Gerik-Jeli Highway, Malaysia. *Journal of Applied Sciences* 15(3): 545-551. ISSN 1812-5654.

Abdullahi MG, Toriman ME, **Gasim, MB** and Garba. 2015. Trends Analysis of Groundwater: Using Non-Parametric Methods in Terengganu Malaysia. *J Earth Sci Clim Change* 6(1):1-3. ISSN 2157-7617.

Sani G. D/iya; Mohd Ekhwan Toriman, **Muhd Barzani Gasim**, Usman M. Gana and Musa G. Abdullahi. 2015. The Correlation Functions and Estimation of Global Solar Radiation Studies Using Sunshine Based Model for Kano, Nigeria. *Advances in Physics Theories and Applications* Vol.39: 55-61. ISSN 2225-0638

Musa G Abdullahi, **Muhd Barzani Gasim** and Hafizan Juahir. 2015. Determination of Groundwater Level Based on Rainfall Distribution: Using Integrated Modeling Techniques in Terengganu, Malaysia. *J. Geol Geosci* Vol 4(1): 1-4.. ISSN: 2329-6755

Sujaul Islam Mir, Ismail B.S, **Muhd. Barzani Gasim**, Sahibin Abd. Rahim and Mohd. Ekhwan Toriman. 2015. Prediction of soil and nutrient losses from the Lake Chini Watershed. *Journal of Physical Science* Vol. 26(1): 53-70. ISSN 2180-4230.

Azman Azid, Che Noraini Che Hasnam, Hafizan Juahir, Mohammad Azizi Amran, Mohd Ekhwan Toriman, Mohd Khairul Amri Kamarudin, Ahmad Shakir Mohd Saudi, **Muhd. Barzani Gasim**, Ahmad Dasuki Mustafa. 2015. Coastal Erosion Measurement Along Tanjung Lumpur to Cherok Paloh, Pahang During the Northeast Monsoon Season. *Jurnal Teknologi*, 74(1): 27-34. ISSN 2180-3722

Auwalu Rabiul Ali1, Mohd Ekhwan Toriman, **Muhd. Barzani Gasim**, Hafizan Juahir.

2015. The Effectiveness of Young Environmental Scientist Program among Secondary School Students in Terengganu, Malaysia. *Journal Of Humanities And Social Science* Vol 20 (3): 72-77. eSSN: 2279-0837.

Hamza Ahmad Isiyaka, Hafizan Juahir, Mohd Ekhwan Toriman, Azman Azid, **Barzani M. Gasim**, Mohd Khairul Amri Kamarudin. 2015. Assessment of the Spatial Variation and Source Apportionment of Air Pollution Based on Chemometric Techniques: A Case Study in the Peninsular Malaysia. *Jurnal Teknologi*. 72(1): 1-6. eSSN: 2180-3722.

Norsyuhada Hairoma, **Muhd. Barzani Gasim**, Azman Azid, Haniff Muhamad, Nur Hishaam Sulaiman, Zuriati Khairuddin, Ahmad Dasuki Mustafa, Fazureen Azaman, and Muhammad Azizi Amran. 2016. Saltwater Intrusion Analysis in East Coast of Terengganu using Multivariate Analysis. *Malaysia Journal of Analytical Sciences (MJAS)*, 20 (5): 1225-1232.

Noorjima Abd Wahab, Mohd Khairul Amri Kamarudin, **Muhd. Barzani Gasim**, Roslan Umar, Frankie Marcus Ata, and Nur Hishaam Sulaiman. 2016. Assessment of Total Suspended Sediment and Bed Sediment Grains in Upstream Areas of Lata Berangin, Terengganu. *International Journal on Advanced Science, Engineering and Information Technology (IJASEIT)*, 6 (5): 757-763.

Musa Garba Abdullahi, Mohd Khairul Amri Kamarudin, Mohd Ekhwan Toriman, **Muhd. Barzani Gasim**, Azizah Endut, and Iliyasu Garba. Assessment of Natural Groundwater Recharge in Terengganu, Malaysia. 2016. *International Journal on Advanced Science, Engineering and Information Technology (IJASEIT)*, 6 (5): 781-786.

Mohd Khairul Amri Kamarudin Mohd Ekhwan Toriman, Mushrifah Idris, Hafizan Juahir, Azman Azid, **Muhd. Barzani Gasim**, Roslan Umar, Azizah Endut, Mazlin Mokhtar, Saiful Iskandar Khalit, Azimah Ismail, Nur Haizal Mat Yaakob and Manutha Appa Rwoo. 2016. Environmental Management on Natural Lake Using Sediment and Hydrology Hydraulic Models. *Malaysian Journal of Applied Sciences (MyJAS)*, 1 (2): 9-26.

Sujaul, I. M., Ismail, B. S., Tayeb M. A., **Muhd. Barzani, G.** and Sahibin, A. R. 2016. Morphological and Physico-Chemical Characteristics of Soils in the Tasik Chini Catchment in Pahang, Malaysia. *Pertanika Journal of Science & Technology (JST)*, 24 (1): 71 – 87.

Sani G. D/iya, **Muhd Barzani Gasim**, Mohd Ekhwan Toriman, M. Z. Noh, Idris Anako, and U. N. Yero. 2016. *International Journal of Latest Technology in Engineering & Management (IJLTEM)*, 1 (4): 1 – 11.

Norsyuhada Hairoma, **Muhd Barzani Gasim** and Mohd Ekhwan Toriman. 2016. Trend of Six Physicochemical Water Quality Parameters Between 2012 and 2015 of the Marang River, Terengganu, Malaysia. *Iranica Journal of Energy & Environment* 7(3): 262-267.

Muhd. Barzani Gasim, Azman Azid, Norsyuhada Hairoma, Nadzifah Yaakub, Haniff Muhamad, Fazureen Azaman and Noorjima Abdul Wahab. (2017). Study on Selected Parameters of Groundwater Quality Based on Different Tides, East Coast of Terengganu, Malaysia. *Asian Journal of Applied Sciences*, 10 (1): 18-24.

Nor Azlina Abd Aziz, Mohd Ekhwan Toriman, **Muhd. Barzani Gasim**, Soaad Muftah, Amal Barggig and Mohd Khairul Amri. Kamarudin. 2017. Water Quality Deterioration in Artificial Lake: Their Impact and Sources. *International Journal on Advanced Science, Engineering and Information Technology* 7(1): 49-56. ISSN: 2088-5334

Muhd. Barzani Gasim, Mohd. Ekhwan Toriman, Amal Barggig, Soaad Muftah, Norsyuhada Hairoma and Azizah Endut. 2017. The Evaluation of Heavy Metals Concentrations in Cempaka Lake, Bangi, Selangor, Malaysia. *International Journal on Advanced Science, Engineering and Information Technology*. Vol.7 (2): 453-459. ISSN: 2088-5334

Selected Chapter in Book

Wan Mohd. Razi Idris, Sahibin Abd. Rahim, Zulfahmi Ali Rahnman, **Muhd. Barzani Gasim** & Azman Hashim. 2008. Ciri fiziko-kimia tanah di Rimba Bandar Bukit Bauk. In. Razani Ujang, Koh H.L., Mohd. Rahim Rani, Na'aman Jaafar, Faridah Hanum & A. Latiff (Edts.). *Rimba Bandar Bukit Bauk, Terengganu: Pengurusan Hutan, Persekitaran Fizikal dan Kepelbagaian Biologi*. UKM Publisher. P. 73-82.

Mohd. Ekhwan Toriman, **Muhd. Barzani Gasim** & Othman Karim. 2012. Senario Banjir 2006/2007 di Johor: Analisis Umum dari Pespektif Hidrologi. Dalam (Penyunting Baharudin Yatim, Maimon Abdullah dan Salmijah Surif) *Banjir Besar Johor*. P. 57-68.

Muhd. Barzani Gasim, Mohd. Ekhwan Toriman, Salmijah Surif, Mazlin Mokhtar & Chong Huei Bee. 2012. Analisis Hujan dan Aras Air swemasa Episod Banjir 2006/2007 di Daerah Segamat, Johor. Dalam (Peny. Baharudin Yatim, Maimon Abdullah dan Salmijah Surif) *Banjir Besar Johor*. Penerbit UKM. P. 69-78.

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<p>Consultancy</p>	<p>Environmental Impact Assessment of Proposed Highways from KualaTembat to Keruak, Terengganu Darul Iman. 2010</p> <p>Environmental Impact Assessment of Proposed Aquaculture Project at three sites along Coastal of Pahang. 2010</p> <p>EIA of Proposed Timber Latex Clone Plantation at the Lesung Forest Reserve, Rompin, Pahang. 2012</p> <p>RIA at Proposed Titanium Slag/Sponge Manufacturing Plant at Samalaju Industrial Park, Bintulu, Sarawak. 2012</p> <p>EIA for the proposed Timber Latex Clone Plantation Compartment 4 to 10 in Gunung InasForset Reserve , Baling, Kedah Darul Aman. 2013</p> <p>Hydrological Study of Similajau and Nyalau River Basins, Bintulu, Sarawak For The Proposed Titanium Sponge Production Facility, Samalaju Industrial Park, Bintulu, Sarawak, Malaysia. Final Report Submitted September 2013.</p> <p>EIA for the Proposed Project of “ Cadangan Membina dan Menyiapkan Jajaran 10 KM Lebuhraya Rakyat dari Machang ke Kuala Krai, Kelantan” October 13, 2015.</p> <p>EIA for the Proposed Project of “ Development of Transmission Line 132 kV from Tekai Hydroelectric Power Station to Existing Transmission Line 132 kV Kuala</p>

	<p>Lipis-Jerantut, Pahang. December 15, 2016.</p> <p>EIA for the Project of" Cadangan Pembangunan Pusat Pentadbiran Kuala Nerus, Mukim Batu Rakit dan Kuala Nerus, Terengganu. December 30, 2016.</p>
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