



PERSONAL DETAILS

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Expertise : Environmental Engineering

ACADEMIC QUALIFICATIONS

NO	LEVEL OF EDUCATION	COURSE	UNIVERSITY	STARTING DATE	ENDING DATE
1	Post-Doctoral	Environmental Engineering	Newcastle University	2010	2011
2	PhD	Environmental Engineering	Newcastle University	2004	2007
3	MSc	Environmental Engineering	Newcastle University	2002	2004
4	BEng	Civil Engineering	Universiti Teknologi Malaysia	1998	2002

AWARD AND HONORS RECEIVED

NO	AWARD	LEVEL (FACULTY /UTM /NATIONAL /INTERNATIONAL)	YEAR
1	Outstanding Achievement	Fakulti MJIT, UTM	2019
2	Awarded Erasmus	International - Credit Staff Mobility Program A4U Universities (Universiti Autonomia de Barcelona)	2019
3	Excellence in Honours Service	Fakulti MJIT, UTM	2019
4	Author ISI Journal Award	Fakulti Majlis Citra Karisma, UTM	2018
5	Community Service Award	Fakulti MJIT, UTM	2018
6	Excellence in Honours Service	Fakulti MJIT, UTM	2018
7	Community Service Award	Fakulti MJIT, UTM	2017
8	Silver Award	17 th Industrial Art and Technology Exhibition (INATEX) Product: PES-SiO ₂ Hollow Fiber Membrane for Bisphenol A (BPA) Removal	2015
9	Excellence in Honours Service	Majlis Citra Karisma, UTM	2014
10	Bronze Award	Industrial Art and Technology Exhibition (INATEX) Product: Culturable Aerobic Granular Sludge using Palm Oil Mill Effluent	2013
11	Quality Award - Summer Course	Fakulti Kejuruteraan Awam, UTM	2013
12	Excellence in Honours Service	Universiti Teknologi Malaysia	2013
13	Mushroom Cultivation on Mesocarp Fibre for Lignocellulosic Partial Degradation	14 th Industrial Art and Technology Exhibition (INATEX) 2012	2012
14	Bronze Award	Industrial Art and Technology Exhibition (INATEX) Product: Optobubble, A Device to Measure Laboratory Gas Production	2012
15	Silver Award	13 th Industrial Art and Technology Exhibition (INATEX) 2011: Multi Stages Anaerobic Reactor for Treatment of Recalcitrant Wastewater	2011
16	Consultant Award	Universiti Teknologi Malaysia	2011
17	Quality Award	Fakulti Kejuruteraan Awam, UTM	2010
18	Faculty Honours Award (Academic Staff Excellence Award)	Fakulti Kejuruteraan Awam, UTM	2009
19	International Alumni Scholarship	Newcastle University	2004
20	Scholarship for PhD degree	UTM Scholarship	2004
21	Award for Master degree	UTM Scholarship	2003

PROFESSIONAL MEMBERSHIP / QUALIFICATIONS / RECOGNITION

NO	NAME OF PROFESIONAL MEMBERSHIP	LEVEL (FACULTY /UTM /NATIONAL /INTERNATIONAL)	ROLE	YEAR
1	International Water Association (IWA)	International	Membership: 00983330	2008-current
2	Malaysia Water Association (MWA)	National	Membership: OM 1405	2008-current
3	Board of Engineers Malaysia (BEM) Graduate	National	Member: 56792A	2008-current
4	Chartered Engineer	International	701543	2023-current
5	Professional Engineer (BEM)	National	P124611	2024-current
6	Registered Assistant Consultant (DOE)	National	Registered No.: AC0936	2008-current
7	Japan-Asean Science, Technology and Innovation Platform (JASTIP)	International	Steering Committee	2016-current

ADMINISTRATIVE EXPERIENCE

NO	POSITION	STARTING DATE	ENDING DATE	DEPARTMENT
➤ FACULTY LEVEL				
1	Head of Microbiology Laboratory	Jan 2018	Dec 2020	Disaster Preparedness and Prevention Centre (DPPC), UTM
2	Head of Water Laboratory	Jan 2018	Dec 2020	Disaster Preparedness and Prevention Centre (DPPC), UTM
➤ UNIVERSITY LEVEL				
NO	POSITION	STARTING DATE	ENDING DATE	DEPARTMENT
1	Director	Oct 2019	Jan 2020	Disaster Preparedness and Prevention Centre (DPPC), UTM
2	Deputy Director	June 2018	May 2020	Disaster Preparedness and Prevention Centre (DPPC), UTM

3	Deputy Director	June 2016	May 2018	Disaster Preparedness and Prevention Centre (DPPC), UTM
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WORKING EXPERIENCE

NO	POSITION	STARTING DATE	ENDING DATE	DEPARTMENT/ORGANISATION
1	Tutor	9 Sept, 2002	7 Dec, 2004	Fakulti Kejuruteraan Awam (FKA), UTM
2	Lecturer (DS45)	8 Dec, 2004	27 Dec, 2014	Fakulti Kejuruteraan Awam (FKA), UTM
3	Postdoctoral	1 Nov, 2010	31 Oct, 2011	University of Newcastle upon Tyne, UK
4	Associate Professor (DS54)	28 Dec, 2014	12 July, 2021	Malaysia-Japan Institute of Technology (MJIT), UTM
5.	Professor (VK7)	13 July, 2021	current	Malaysia-Japan Institute of Technology (MJIT), UTM

CONSULTANCY EXPERIENCE

NO	NAME OF CONSULTANCY	ROLE	AMOUNT (RM)	STARTING DATE	ENDING DATE	VOTE NO
1	Kajian Airbumi Menggunakan Survei Geofizik di Sek. Men. Scientex, Pasir Gudang Johor	Project Leader	7,000	25 June 2020	28 June 2020	A.K430000.5500.07542-
2	Study on the Current Status and Needs Assessment of Water Resources Research in Malaysia, Akademi Sains Malaysia	Project Member	73,500	Nov 2012	Dec 2013	R.J130000.7609.4C032

FACULTY APPOINTMENT COMMITTEE

NO	NAME OF COMMITTEE	ROLE	STARTING DATE	ENDING DATE
1	MJIT Final Year Project 1 (FYP1) Three Minutes Thesis Seminar	Invigilator	14 Nov 2019	14 Nov 2019
2	MPhil First Stage Evaluation	Chairman Viva	16 July 2019	16 July 2019
3	Full Accreditation of MDRM Program	Task Force Member	Nov 2018	Dec 2019

4	Family Club MJIT 2019	President	Jan 2019	May 2019
5	Final Examination Sem I, 2017/2018	Invigilator	24 Dec 2018	02 Jan 2019
6	MPhil First Stage Evaluation	Chairman	11 Dec 2018	11 Dec 2018
7	Kazoku Club, MJIT UTM	Chairman	01 June 2018	31 Dec 2018
8	Industrial Training Students CPE 2018	Task Force Member	30 July 2018	24 Aug 2018
9	Family Club	Task Force Member	March 2018	Dec 2018
10	Final Examination Paper Sem II 2017/2018	Moderator	20 Apr 2018	20 Apr 2018
11	Full Accreditation of MDRM Program	Task Force Member	Nov 2017	Dec 2017
12	Postgraduate Final Examination Paper Semester 1 2017/2018	Coordinator	Nov 2017	Nov 2017
13	Industrial Training Students CPE MJIT	Supervisor Industrial Training	July 2017	Aug 2017
14	Lawatan Pelajar ke Loji Rawatan Air Semenyih	Committee Members	20 Oct 2016	20 Oct 2016
15	Lawatan Pelajar ke Loji Rawatan Air Sisa Pantai 1 Indah Water Konsortium	Committee Members	20 Oct 2016	20 Oct 2016
16	MDRM Seminar and Open Day	Committee Members	02 Aug 2016	02 Aug 2016
17	Industrial Training Students	Academic Evaluator	01 Aug 2016	26 Aug 2016
18	Program Graduate Employability: Sijil Water Quality and Wastewater Laboratory Product Based Training Bersama RKT Corporation (M) Sdn.Bhd	Coordinator	05 Apr 2015	09 Apr 2015
19	Ahli Panel Pembentangan Projek Sarjana FKA UTM	Committee Member	13 Dec 2015	15 Dec 2015
20	Penasihat Akademik FKA UTM	Academic Advisor	01 Jan 2013	31 Dec 2015
21	Tenaga Pelawat Akademik Dan Akreditasi Pasca Siswazah	Task Force Member	Jan 2012	Dec 2012
22	Akreditasi FKA, UTM	Committee Member	07 Dec 2011	06 Dec 2013
23	Penyelarasan Silibus Makmal FKA	Committee Member	Mar 2009	Mar 2010

UNIVERSITY APPOINTMENT COMMITTEE

NO	NAME OF COMMITTEE	ROLE	STARTING DATE	ENDING DATE
1	Malaysia-Japan International Institute of Technology (MJIT), UTM	Senpai Grant (Local and International)	1 March 2021	30 November 2021
2	Joint Seminar 2021- Master of Sustainability and Environmental Sciences (Joint Degree) &	Leader	15 Feb 2021	17 Feb 2021

	Collaborative Education Program for Sustainable Environmental Engineering Network (CEP-SEEN)			
3	Panel Penilai Proposal Skim Geran Penyelidikan KPT 2020	Evaluator	Jan 2020	Dis 2020
4	Universiti Sultan Zainal Abidin (UnisZa)	Manuscript evaluator	23 Sept 2020	-
5	Action Book For AUN/SEED-Net Collaborative Education Program 2019	Chair	Feb 2019	Apr 2019
6	ASEAN Engineering Journal (Scopus Index)	Deputy Editor-in-Chief	Feb 2021	Jan 2023
7	Faculty Research Grant Champion (FRGC) in International Grant	Task Force Member	Mar 2020	Feb 2023
8	Pemantauan Jerebu di Kampus UTM 2019	Task Force Committee	17 Sept 2019	-
9	Collaboration Education Program (CEP) Grant Application	Task Force Committee	Oct 2018	Dec 2018
10	Tempoh Pemerhatian Bagi Dasar Pemisah	Task Force Member	Jan 2018	June 2018
11	Natural Disaster Field under AUN/SEED-Net	Coordinator	03 Sept 2017	31 Mar 2023
12	Tier 1 Grant Application	Evaluator	Nov 2017	-
13	Proposal Evaluation GUP	Reviewer	Nov 2017	Dec 2017
14	Educational Visit to Pantai 2 Sewerage Treatment Plant, Kuala Lumpur	Coordinator	23 Nov 2017	23 Nov 2017
15	Natural Disaster for AUN/SEED-NET Project	Coordinator	Sept 2017	Dec 2017
16	Fast Track PhD Application	Panel Evaluator	Aug 2017	-
17	Perlaksanaan Dasar Pemisah	Task Force Member	July 2017	Dec 2017
18	Centre for Environmental Sustainability and Water Security (IPASA), Research Institute for Sustainable Environment (RISE)	Research Fellow	31 May 2015	30 May 2018
19	Koordinasi Kompleks UTM-Pagoh Di Hub Pendidikan Tinggi Pagoh (HPTP)	Task Force Member	Jan 2015	Dec 2015
20	Proses Penjajaran Strategi, Pelan Global UTM 2012-2020 (FASA II: 2015-2017)	Task Force Member	Jan 2015	Dec 2015
21	Panel Buku Universiti (UTM)	Task Force Member	Mar 2015	Mar 2017

22	Treatment System for Rural Household Water Supply in Laos People Democratic Republic	Task Force Member	Feb 2015	-
23	Treatment System for Rural Household Water Supply in Laos People Democratic Republic	Committee Member	26 Feb 2015	03 Mar 2015
24	Ahli Jawatankuasa Penyelidikan, Pembangunan Dan Pengkormesilan	Committee Member	01 Oct 2014	31 Dec 2014
25	UTM Community Transformation Centre	Qualified Volunteer	10 Oct 2014	-
26	Research, Development and Commercialization IPASA	Task Force Member	Oct 2014	June 2017
27	Sustainable Performance Metrics on Community Engagement: Water Sanitation Hygiene - Water and Me (WASH-WAM)	Researcher & Programme Coordinator	04 Sept 2014	05 Sept 2014
28	Bidang Tumpuan Utama: Sustainable Campus, System (ICT), Infrastructure and Community and Industry Linkage	Task Force Member	03 Aug 2014	31 Dec 2014
29	JSPS-ASIAN Core (Research and Education Center for The Risk Based Asian Oriented Integrated Watershed Management) Program	Committee Member	Feb 2014	-
30	Joint Symposium Between College of Environment and Marine Sciences Technology (CEMST) Pukyong National University (PPKNU), UTM	Task Force Member	Jan 2014	-
31	Community Based Participatory Research on Southeast ASEAN Water Challenge	Ambassador	Dec 2013	-
32	Global Knowledge Inisiatif	Expert Panel	18 Nov 2013	22 Nov 2013
33	Penilaian Teknikal Sebutharga Pusat Pengurusan Penyelidikan UTM	Committee Member	May 2013	Apr 2015
34	JKAS Summer School 2013	Committee Member	01 Jan 2013	31 Dec 2013
35	Postgraduate Seminar on UTM & UNESCO-IHE 2010: Water Sustainability	Coordinator	20 Jan 2010	-

NATIONAL APPOINTMENT COMMITTEE

NO	NAME OF COMMITTEE	ROLE	STARTING DATE	ENDING DATE
1	Evaluate Proposal: Oil Palm Leaves Mediated Green Synthesis of Nano Zero-Valent Iron (NZVI) Nanoparticles for Degradation of Micropollutants In Produced Water	Committee	06 Aug 2019	20 Aug 2019
2	Evaluate Proposal: Modelling Impact of Pathogenic Microorganisms and Organic Contaminants from Effluents of Sewage Treatment Plant on Receiving Streams	Committee	06 Aug 2019	20 Aug 2019
3	Compilation of Historical Data & Summary for The Disasters, Floods Etc From Sin Chew Jit Poh Newspaper-IEM Malaysia	Coordinator	May 2018	Dec 2018
4	NBOS Project-Water Supply in Kg. Air Pasir	Project Leader	Jan 2017	-
5	Conference on Flood Catastrophes in A Changing Environment (CFCCE'16)	Secretariat	Nov 2016	-
6	Persidangan Keselamatan Air Kedua	Technical Evaluator	May 2016	-
7	Kg Bharu Heritage Trail and Educentre For River of Life Sg Bonus	Committee Member	06 July 2015	06 July 2015
8	Bengkel Efektif Mikroorganisme	Expert Panel	May 2015	-
9	The Collaborative Innovation in English Learning Through Sustainable Digital Community Programme: Interactive English Language Challenge (Intelc 2015)	Expert Panel	28 Feb 2015	28 Feb 2015
10	Universiti-Industri Linkage Status and Impact Analysis in Higher Education Institutions in Malaysia	Task Force Member	Jan 2015	-
11	Community Engagement Project-based Learning – Development of Rainwater Harvesting System for Agriculture (Paddy Field) at Kg. Air Papan, Mersing, Johor	Qualified Volunteer	26 Sept 2014	28 Sept 2014
12	Program Dialog Johor 2014	Committee Member	Feb 2014	-

13	Seminar on River Management for Sungai Johor Catchment & Book Chapter Workshop 2014	Task Force Member	03 Feb 2014	04 Feb 2014
14	Matriculation's Engineering Drawing	Examiner	Nov 2011	-
15	Department of Environment, Ministry of Energy, Science, Technology, Environment & Climate Change	Assistant Consultant	Jan 2011	Dec 2011
16	Faculty of Civil Engineering, UTM Johor	Committee Member	Sept 2009	-

INTERNATIONAL APPOINTMENT COMMITTEE

NO	NAME OF COMMITTEE	ROLE	STARTING DATE	ENDING DATE
1	5 th JASTIP Joint Symposium: Disaster Risk Reduction & Environmental Sustainability for Social Resilience	Organizing Committee	16 Oct 2018	19 Oct 2018
2	Journal Water Research	Paper Reviewer	Oct 2018	-
3	6 th AUN/SEED-Net Regional Conference on Natural Disaster 2018	Field Management Member / Moderator	03 Sept 2018	05 Sept 2018
4	AUN/SEED-Net (Natural Disaster)	Field Management Member	31 Jan 2018	-
5	JASTIP under the activity of Japan Science and Technology Agency's (JST) FY2015 Strategic International Collaborative Research Program (SICORP)	Steering Committee Member	Jan 2018	-
6	7 th IWA-Aspire Conference & Exhibition 2017, Kuala Lumpur Malaysia	Reviewer	Sept 2017	-
7	ISI Journal of International Biodeterioration & Biodegradation (Elsevier)	Journal Reviewer	April 2017	-
8	Journal Isi Quartile I 'Water Research'	Journal Reviewer	Aug 2017	-
9	AUN/SEED-Net Joint Conference 2016	Committee Member	06 Sept 2016	07 Sept 2016

10	JASTIP Symposium on Disaster Prevention International Cooperation Research	Committee	24 Mar 2016	26 Mar 2016
11	Japan-ASEAN Science Technology Innovation Platform (JASTIP)	Steering Committee	Jan 2016	-
12	Environmental Stresses Regulate Comprehensive Microbial Clustering Performance of Activated Sludge	Manuscript Reviewer	Dec 2015	-
13	Journal of Water Research: Optimizing Granule Size Distribution for Aerobic Granular Sludge Stability: Effect of a Novel Funnel-Shape Internal on Hydraulic Shear Stress	Manuscript Reviewer	Dec 2015	-
14	4 th IWA-UTM International Publication Workshop 2016	Organizing Committee	07 Mar 2016	11 Mar 2016
15	Journal of Water, Sanitation and Hygiene for Development – ‘Zinc Removal from Aqueous Solution Using Novel Adsorbent MISCBA’	Reviewer	Nov 2015	-
16	International Conference on Advanced Science, Engineering and Technology (ICASET) 2015	Reviewer	05 Oct 2015	12 Oct 2015
17	Manuscript: Bacterial Profile and Biodegradation Potential of Abattoir Wastewater for Biogas	Reviewer	07 Aug 2015	21 Aug 2015
18	2 nd IWA-Malaysia Young Water Professional International Conference 2015 (YWP15)	Organizing Committee	17 Mar 2015	20 Mar 2015
19	Jurnal Teknologi Article-Special Edition (Protection of Safety Drinking Water for Society: Source Abstraction and Treatment)	Referee	Feb 2015	
20	IWA 7 th International Young Water Professional Conferences	Technical Committee	07 Dec 2014	11 Dec 2014
21	ISI Journal of Water Science Technology by IWA for a paper entitled "The water-saving analysis on the effective water	Reviewer	Dec 2014	-

	reused system in biodiesel feedstock production based on the <i>Chlorella zofingiensis</i> fed-batch cultivation"			
22	Soil, Air, Water Journal for article "Effect of effluent circulation and hydraulic retention time (HRT) on the performance of a modified anaerobic baffled reactor (MABR) during start-up period"	Reviewer	Nov 2014	-
23	ISI Journal of Waste Management IF 3.157	Referee	21 April 2014	30 April 2014
24	Journal Environmental Technology	Reviewer	Dec 2013	-
25	Community Based Participatory Research Air Papan Mersing	Committee Member	01 Nov 2013	31 Dec 2013
26	Desalination Journal	Reviewer	Oct 2013	-
27	5 th IWA Asia Pacific Regional Grouping (ASPIRE) 2013	Reviewer	Sept 2013	-
28	2 nd IWA-UTM International Publication Workshop 2013	Organizing Committee	12 Jan 2013	18 Jan 2013
29	Desalination Journal for Manuscript entitled 'Water and Policy in Jordan: Is Desalination is the Only Viable Option'	Reviewer	Dec 2012	-
30	1 st IWA-Malaysia Young Water Professional Conference 2010	Organizing Committee	02 Mar 2010	03 Mar 2010

SELECTED ACTIVITIES / WORKSHOPS / SEMINARS / COURSES

NO	NAME OF ACTIVITIES	PLACE OF ACTIVITIES	STARTING DATE	ENDING DATE
1	Joint Seminar 2021- Master of Sustainability and Environmental Sciences (Joint Degree) & Collaborative Education Program for Sustainable Environmental Engineering Network (CEP-SEEN)	Webex UTM	15 Feb 2021	17 Feb 2021
2	Majlis Pelancaran Buku 40 Hadis Pelestarian Alam Sekitar	UTM	17 Dec 2019	17 Dec 2019

3	Roadshow Fakulti - Taklimat Glosari Myra (Pindaan 2018)	UTM	19 Nov 2019	19 Nov 2019
4	How to Create Massive Transformative Clean Toilet Movement	UTM	11 Oct 2019	11 Oct 2019
5	Remote Supervision Course (UTM Lead)	UTM KL	13 Sept 2019	13 Sept 2019
6	Program Townhall Setahun Utm Synergy 4.0	UTM	15 Aug 2019	15 Aug 2019
7	Simposium Pendidikan Air Stem 2019	Pusat Sains Negara, KL	06 July 2019	06 July 2019
8	Kursus Pengurusan Organisasi bagi Pentadbir Akademik	UTM KL	14 May 2019	15 May 2019
9	Sesi Engagement Staf MJIT bersama Dato Naib Canselor	UTM	23 Apr 2019	23 Apr 2019
10	Book Review @ UTMKL (Syarahan Umum, Eco-Shift: Holistic Transformation Towards Environmental Sustainability)	UTM KL	17 Dec 2018	17 Dec 2018
11	MA-300 Direct Mercury Analyser Training	UTM	05 Sept 2018	07 Sept 2018
12	Leading Transformation and Turnarounds in Academia	UTM Space	29 Aug 2018	30 Aug 2018
13	Thermo Scientific Dionex Ion Chromatography Seminar Training Course	UTM	28 Aug 2018	29 Aug 2018
14	Gotong Royong Perdana MJIT	MJIT	6 Apr 2019	6 Apr 2019
15	Lecture on Publication	UTM	16 Apr 2018	16 Apr 2018
16	Majlis Amanat Yb Menteri Pendidikan Tinggi 2018	UTM	11 Jan 2018	11 Jan 2018
17	Majlis Perasmian Azman Hashim International Business School	UTM	15 Mar 2018	15 Mar 2018
18	MJIT Faculty Meeting No.1/2018	MJIT	29 Jan 2018	29 Jan 2018
19	MJIT Leading Transformation and Turnarounds In Academia Workshop	MJIT	29 Aug 2018	30 Aug 2018
20	MJIT Strategic Planning Workshop 2018	MJIT	13 Apr 2018	15 Apr 2018
21	MJIT-UTM Pre Strategic Planning Workshop 2018	MJIT	05 Apr 2018	05 Apr 2018
22	Monthly Engagement with Dean of MJIT	MJIT	12 Mar 2018	12 Mar 2018
23	Multipameter Water Quality Sonde	UTM	28 June 2018	28 June 2018
24	Proteins & Nanoparticles Characterization System	UTM	06 Aug 2018	08 Aug 2018
25	Perhimpunan Bulanan Naib Canselor 2018	UTM	22 Jan 2018	22 Jan 2018
26	Perhimpunan Bulanan Naib Canselor 2018	UTM	13 Feb 2018	13 Feb 2018
27	Perhimpunan Bulanan Naib Canselor 2018	UTM	06 Mar 2018	06 Mar 2018
28	Perhimpunan Bulanan Naib Canselor 2018	UTM	03 Apr 2018	03 Apr 2018
29	Perhimpunan Bulanan Naib Canselor 2018	UTM	11 Dec 2018	11 Dec 2018

30	Resistivity & IP Imaging Instrument	UTM	30 July 2018	31 July 2018
31	Sesi Pertemuan Naib Canselor Bersama Staf Akademik Berumur 45 Tahun Dan Ke Bawah	UTM	30 June 2018	30 June 2018
32	Alr101 - The Academic Leader - Roles, Responsibilities and Expectations	UTM	03 Aug 2017	03 Aug 2017
33	Bengkel Penyediaan Kertas Kerja Permohonan Dana University Community Transformation Centre (UCTC) 2018	UTM	09 Oct 2017	09 Oct 2017
34	Intensive Course on Chemical Handling & Occupational Safety and Health	UTM	17 Aug 2017	17 Aug 2017
35	Kursus Kepimpinan; Modul ALC103 - Transformational & Turnaround Leadership for Universities	UTM	04 Dec 2017	04 Dec 2017
36	Launching of JMDP Between University of Tsukuba (Japan) And MJIIT & JASTIP Joint-DPPC	MJIIT	29 Aug 2017	29 Aug 2017
37	Leadership Talk Series Modul Asl 103: Qalbu - Guided Leadership	UTM	11 Dec 2017	11 Dec 2017
38	Majlis Sambutan Hari Raya Aidilfitri 1438h/2017m Utmkl Dan Program Membangun Personaliti Unggul Bil.3/2017	UTM KL	20 July 2017	20 July 2017
39	MJIIT-UTM Strategic Planning Workshop 2017	MJIIT	12 May 2017	14 May 2017
40	Majlis Amanat Tahun Baharu Kementerian Pendidikan Tinggi	UTM	12 Jan 2017	12 Jan 2017
41	Perhimpunan Bulanan Naib Canselor 2017	UTM	06 Nov 2017	06 Nov 2017
42	Seminar UTMShine	UTM	07 Dec 2017	07 Dec 2017
43	Taklimat Pelaksanaan Tempoh Pemerhatian Dalam (Exit Policy)	UTM	07 Aug 2017	07 Aug 2017
44	Writing High Impact Journal Article	UTM	24 Apr 2017	24 Apr 2017
45	17th MJIIT Leadership Lecture Series & Handing over Ceremony of Perodua Car to MJIIT; Building a Strong Malaysian Brand Rally for Malaysian Youth	MJIIT	18 Oct 2016	18 Oct 2016
46	Amanat Tahun Baru Dekan Fakulti Kejuruteraan Awam 2016	UTM	31 Jan 2016	31 Jan 2016
47	Bengkel Penyediaan Kertas Cadangan Geran Penyelidikan Antarabangsa 1/2016 Kumpulan Penyelidikan Di Bawah Resource Sustainability Research Alliance.	UTM	10 Jan 2016	12 Jan 2016
48	Candid Talk Show - Lean in Women in Academia and The Will to Lead	UTM	24 May 2016	24 May 2016

49	Monthly Engagement with The Vice Chancellor of UTM 2016	UTM	04 May 2016	04 May 2016
50	Majlis Amanah Tahun Baharu Y.Bhg Timbalan Naib Canselor (Penyelidikan Dan Inovasi) Bersama Warga Kerja Penyelidikan Dan Inovasi	UTM	14 Jan 2016	14 Jan 2016
51	Perhimpunan Bulanan Ybhg Datuk Naib Canselor UTM Monthly Engagement with The Vice Chancellor Of UTM	UTM	11 Jan 2016	11 Jan 2016
52	Program Pembudayaan Al-Quran - Zon G	UTM	28 Jan 2016	28 Jan 2016
53	Sesi Engagement Timbalan Dekan (Penyelidikan & Inovasi) Fakulti Kejuruteraan Awam Dengan Staf Akademik	UTM	21 Jan 2016	21 Jan 2016
54	1 st Postgraduate Conference on Protection of Drinking Water for Society: Source Abstraction Treatment	UTM	10 Feb 2015	11 Feb 2015
55	Hydrology for Non-Hydrologist Workshop	UM	22 Aug 2013	23 Aug 2013
56	International Conference on Challenges in Environment Science & Engineering	Melbourne, Australia	09 Sept 2012	13 Sept 2012
57	Code of Ethics/Regulation Course	Lembaga Jurutera Malaysia	23 May 2012	24 May 2012
58	Program Syarahan Perdana Professor UTM	UTM	05 May 2012	05 May 2012
59	Engineering Management Practice	Lembaga Jurutera Malaysia	12 Apr 2012	13 Apr 2012
60	Program UTM-IWAYWP International Publication Workshop	UTM	18 Mar 2012	24 Mar 2012
61	Induction Course for EIA Consultants	Jabatan Alam Sekitar	09 June 2010	10 June 2010
62	Kursus Kenegaraan Sistem Saran Malaysia PTK1	Jabatan Perdana Menteri	25 Mar 2010	29 Mar 2010
63	Seminar "Career Development: Developing Professionals for Innovative Economy"	UTM	23 Mar 2010	23 Mar 2010
64	Program Kad Hijau	UTM	22 July 2009	22 July 2009
65	Half-Day Course on Abstract Writing	UTM	04 Dec 2008	04 Dec 2008

RESEARCH ACTIVITIES

NO	NAME OF GRANT	ROLE	CATEGORY OF GRANT (UTM/ OTHERS)	TYPE OF GRANT	AMOUNT (RM)	STARTING DATE	ENDING DATE	VOTE NO
1	MG1-12.0: Research And Education Grant For Innovative Environmental Engineering Solutions (Genes)	Project Leader	External Grant	International Research Grant	174,691	Sept 2023	Dec 2025	R.K130000.7643.4B885
2	MG1 - 12.1: Research And Education Grant For Innovative Environmental Engineering Solutions (Genes)	Project Leader	Others	Matching Grant	100,000	Aug 2023	July 2026	Q.K130000.3043.04M55
3	Preparation of biologically energetic chitosan@CuO/ZnO biocomposites for the removal of organic dyes from wastewater	Project Leader	Others	International Research Grant	17,897	Apr 2023	Mar 2024	R.K130000.7343.4B822
4	Optimising The Operation Of A Pilot-Scale Up-Flow Anaerobic Sludge Blanket For Development Of Anaerobic Granular Sludge	Project Leader	External Grant	Contract	37,400	Sept 2022	Sept 2023	R.K130000.7643.4C682
5	Removal of Pollutant from Wastewater by Using Eco-Friendly Nano-Composite/ Waste Materials	Project Leader	Internal Grant	Fellow Research Grant	63,540	July 2022	June 2023	Q.K130000.21A6.00P32

6	Raman Scattering Based Sensor for Rapid Detection Of Covid-19 Virus	Project Leader	UTM	IIIG	20,000	Feb 2021	Jan 2022	Q.K130000.3643.03M02
7	Special Program for Research against COVID-19 (SPRAC): Rapid detection of COVID-19 virus in human nasopharyngeal swab specimen using Raman scattering based sensor.	Project Leader	Others	International Research Grant	207,547	Oct 2020	Dec 2021	R.K130000.7343.4B616
8	Analysis of Discharge and Sediment Yield in Jelai River	Project Leader	UTM	IIIG	10,000	July 2020	June 2021	Q.K130000.3643.02M31
9	Characterization of Biofilm During Anodic Oxidation Treatment of Agro-Based Wastewater	Project Leader	Ministry of Education	FRGS	85,000	Aug 2019	July 2021	R.K130000.7843.5F167
10	Collaborative Education Program for Sustainable Environmental Engineering Network (CEP-SEEN)	Project Leader	Others	International Research Grant	1,871,979	Apr 2019	Dec 2022	R.K130000.7343.4B403
11	Variability and Trend Analysis of Discharge and Sediment Yield in Jelai River	Project Leader	Others	International Research Grant	9,154	Apr 2019	March 2020	R.K130000.7343.4B392
12	Coagulation of Microbes in Domestic Wastewater and Modelling of Water Quality Impact for Flood Recovery	Project Leader	UTM	UTM	700,000	May 2017	Apr 2019	R.K130000.7743.4J284
13	Predomination of Facultative Anaerobic Bacteria in Activated Sludge in Tropical Climate	Project Leader	UTM	UTM	40,000	July 2017	June 2019	Q.K130000.2543.17H04

14	Assessing Water Quality in The Langat River Basin during Disaster Period Using Integrated Remote Sensing and Modelling Methodologies	Project Leader	Others	International Research Grant	23,755	Oct 2016	Aug 2017	R.K130000.7343.4B289
15	Water Supply for Unprivileged Community	Project Leader	Others	NBOS4 KPT Grant	100,000	June 2016	May 2017	S.K130000.0843.4Y046
16	Biodegradation of Volatile Organic Carbons (VOCs) using Immobilized Yeast Strain and Activated Sludge in Fluidized Bed Bioreactor	Project Leader	Ministry of Education	FRGS	82,152	Nov 2015	Nov 2017	R.J130000.7822.4F807
17	Enhancement of Methane Production at Sedenak Biogas Plant Value	Project Leader	UTM	Research University Grant	50,000	May 2015	Oct 2016	Q.J130000.2522.10H83
18	Biodegradation of Algal Biomass Under Anaerobic Processes	Project Leader	UTM	Tier 1	47,000	Apr 2014	March 2015	Q.J130000.2509.08H00
19	Inhibition of Sulfate-Reduction Bacteria to Enhance Methane Yield in Anaerobic Digester	Project Leader	Ministry of Education	FRGS	93,000	Apr 2012 F	March 2014	R.J13000.7822.4F138
20	Anaerobic Co-Digestion of Palm Oil Mesocarp Fibre with Cattle Manure for Biogas Production	Project Leader	UTM	Research University Grant	119,800	May 2012	April 2014	Q.J130000.2522.02H66

21	Characterization of Anaerobic Granular Sludge in Bioconversion of Leachate	Project Leader	Ministry of Education	FRGS	50,000	Nov 2009	Oct 2010	R.J130000.7822.3P035
22	Anaerobic Treatability of Recalcitrant Wastewater	Project Leader	UTM	UTM	10,000	June 2009	June 2010	R.J130000.7822.3F436
23	Electrochemical Oxidation Treatment of Pharmaceuticals in Wastewater using Graphite-Pvc Composite as Anode	Project Leader	Others	PDRU	71,000	July 2018	June 2019	Q.J130000.21A2.04E52
24	Analysis of Pharmaceuticals in Water Samples (Surface Water and Wastewater) Using LC-TOF/MS: A Case Study of Electrodegradation of The Pharmaceuticals and Their Transformation Products	Project Leader	Others	PDRU	65,000	July 2017	June 2018	Q.J130000.21A2.03E86
25	Biodegradation of Volatile Organic Carbons (VOCs) using Immobilized Yeast Strain and Activated Sludge in A Fluidized Bed Bioreactor	Project Leader	UTM	Research University Grant	65,000	March 2016	Feb 2017	R.J130000.7822.4F807
26	Pagoh Project: Conversion of Domestic Sludge to Organic Fertilizer using Sub-Critical Water Reactor (SCWR)	Project Leader	Others	Special Grant KPT	100,000	Aug 2015	July 2017	R.K430000.7822.4L172

27	A Pilot Scale Study on Application of Aerobic Granular Sludge Technology for Domestic Wastewater Treatment	Researcher	External Grant	Contract	37,400	Aug 2022	Aug 2023	R.K130000.7643.4C648
28	Potential of Local Facultative Anaerobic Bacteria to Reduce Energy Consumption in Sewage Treatment Process	Researcher	UTM	UTM Shine	40,000	Mar 2020	Feb 2022	Q.K130000.2409.09G44
29	Pilot Scale Prototype for Landfill Leachate Treatment Using Modified Anaerobic Baffled Reactor	Researcher	UTM	UTMPR	70,000	Jan 2020	June 2022	Q.K130000.2856.00L57
30	Identification of Flood Vulnerability Index Parameter in Assessing Flood Risk in Selangor, Malaysia.	Researcher	Ministry of Education	FRGS	84,000	Jan 2019	Mar 2021	R.K130000.7843.5F056
31	Assessment of Microgranule As A Curative Measure for Enhancement Of Wastewater Treatment Process	Researcher	Ministry of Education	FRGS	90,000	Jan 2019	Mar 2021	R.K130000.7843.5F003
32	Assessment of organic and inorganic uptake from Palm Oil Mill Effluent by indigenous microalgae	Researcher	Ministry of Education	FRGS	90,000	Jan 2019	Mar 2021	R.K130000.7856.5F049

33	UTM-TDR 15.2 (T2): Simultaneous Energy Generation and COD Reduction of POME Using Microbial Fuel Cell	Researcher	UTM	UTM-TDR	40,000	Dec 2018	May 2021	Q.J130000.3554.05G24
34	Projek Pemasangan Sistem Penuaian Air Hujan Di Masjid Al-Mutaqqin, Wangsa Melawati	Researcher	Others	BE	60,000	Oct 2017	Oct 2018	S.K130000.0843.4Y118
35	Optical Based Nitrate Sensor using Etched-cladding Fibre Bragg gratings coated with Silicon Nitride for Water Quality Monitoring	Researcher	UTM	UTMF	20,000	Dec 2017	Nov 2018	R.K130000.7743.4J306
36	Assessment of Ammoniacal Nitrogen And Heavy Metal Removal From Solid Waste Landfill Leachate Using Gracilaria sp.	Researcher	UTM	Tier 1	50,000	Feb 2018	July 2019	Q.K130000.2540.20H05
37	Membaik Pulih Projek Sistem Penuaian Air Hujan, Kg Air Papan Mersing, Johor	Researcher	Others	BE	15,000	Aug 2016	Feb 2017	S.J130000.0822.4Y077
38	Leachate treatment prototype using natural brown seaweed	Researcher	Others	PRGS	118,000	Oct 2016	Oct 2018	R.K130000.7810.4L674
39	Treatment of textile wastewater using modified anaerobic baffled reactor	Researcher	UTM	Tier 1	50,000	July 2016	Dec 2017	Q.K130000.2510.13H42

40	Treatment of Landfill Leachate Using Aluminum Electrocoagulation System	Researcher	UTM	Tier 1	50,000	Feb 2016	Jan 2018	Q.K130000.2510.13H11
41	Evaluation of Risk and Abatement Measures in Flood Disaster Impacted Area for Sustainable Waste Management	Researcher	Others	TRGS	114,070	Apr 2015	Mar 2016	R.J130000.7809.4L834
42	University-Industry Linkages Status and Impact Analysis in Higher Education Institutions in Malaysia	Researcher	Others	SJT	142,800	Jan 2015	Sept 2015	R.J130000.7817.4L154
43	Combined Anaerobic-Aerobic Digestion for Cleaner Effluent Discharge	Researcher	UTM	Tier 1	50,000	May 2015	Nov 2016	Q.J130000.2545.10H63
44	UTM Community Engagement Transformation Model for Water Environment and Hygiene Sustainability	Researcher	UTM	Tier 1	55,000	Apr 2014	Mar 2016	Q.J130000.2517.05H80
45	Assessment of Leachate Biodegradation in The Presence Of Zeolite Under Anaerobic Condition	Researcher	UTM	Tier 1	20,000	July 2014	June 2015	Q.J130000.2522.09H03
46	Southeast Asean Water Challenge	Researcher	Others	OTR	200,000	May 2013	Jan 2014	R.J130000.7306.4B109

47	Evaluation of Bioluminescent Fungi for Monitoring and Classify Persistent Organic Pollutant (POPs) Toxicity	Researcher	Others	ERGS	142,900	June 2013	May 2015	R.J130000.7809.4L102
48	Characterization of Alginate-like Exopolysaccharides Isolated from Aerobic Granular Sludge in Industrial Wastewater	Researcher	Ministry of Education	FRGS	95,000	Apr 2013	March 2015	R.J13000.7845.4F198
49	Mechanistic and Kinetics of Carbon Dioxide Biofixation in Photosynthetic Aerobic Granules	Researcher	Ministry of Education	FRGS	71,000	Apr 2013	May 2015	R.J130000.7822.4F211
50	Study on The Current Status and Needs Assessment Of Water Resources Research In Malaysia	Researcher	Others	CR	73,500	Nov 2012	Dec 2014	R.J130000.7609.4C032
51	Batch Microcosm Studies of Landfill Leachate	Researcher	UTM	Research University Grant-Tier 2	50,000	Dec 2012	May 2015	Q.J13000.2622.07J11
52	Micro-Pollutants Removal using Combined Membrane Filtration, Advanced Oxidation Process and Adsorption for Safe Drinking Water	Researcher	Others	LRGS	1,500,000	June 2012	Jan 2018	R.J130000.7809.4L810

53	Development of Photosynthetic Microbial Granules-Based for Carbon Dioxide Emission Reduction of Palm Oil Mill Effluent	Researcher	UTM	Research University Grant – Tier 1	196,600	Dec 2012	Nov 2014	Q.J13000.2522.04H33
54	Treatment of Landfill Leachate using Combined Advanced Oxidation Processes and Porous Membrane Activated Sludge Reactor	Researcher	UTM	Research University Grant – Tier 1	180,000	Dec 2012	Nov 2015	Q.K13000.0540.03H64
55	Evaluation of Earthworms (<i>Eisenia Fetida</i>) and Crude Enzymes to Accelerates the Removal and Transform Persistent Organic Pollutants (POPs) in Soil	Researcher	UTM	ERGS	98,000	Apr 2012	March 2014	R.J130000.7822.4L053
56	Exploration of Cool-Pavement Materials by Using Wasted Ceramic Tiles Towards Combating Urban Heat Island Phenomenon	Researcher	Others	ERGS	80,000	June 2012	June 2014	R.J130000.7822.4L029
57	Surface Morphology Characterization Study of Aerobic Granular Sludge Developed using Palm Oil Mill Effluent (POME)	Researcher	UTM	Research University Grant – Tier 2	35,000	April 2012	March 2013	Q.J1300002635.06J11

58	Removal of Heavy Metals from Municipal Landfill Leachate using Seaweed	Researcher	UTM	Research University Grant	41,000	Apr 2012	March 2014	Q.K130000.2640.06J09
59	Characterization of Enzymatic Transformation of Synthetic Dyes in the Liquid Culture by Ligninolytic Fungi	Researcher	UTM	Research University Grant – Tier 1	75,613	May 2012	April 2014	Q.J130000.2522.02H65
60	Treatment of Solid Waste Landfill Leachate Using Continuous Stirred Anaerobic Baffled Reactor	Researcher	UTM	DPUTMRAZ AK	65,000	Feb 2018	Dec 2018	R.K130000.7740.4J311
61	Real-Time Hydrologic of Extreme Rainfall Induced Disaster and Complex Landslide Risk Assessment and Forecasting	Researcher	UTM	UTMF	500,000	May 2017	Apr 2019	R.K130000.7740.4J307
62	Characterization of Granular-Forming Bioflocs For Efficient N and P Removal at Industrial Wastewater Treatment Plant	Researcher	UTM	Research University Grant – Tier 1	40,000	July 2017	Sept 2019	Q.K130000.2543.17H11
63	Developing an Integrated Disaster Risk Index considering Climate Change - A pilot project for Malaysian River Basin	Researcher	UTM	UTMF	300,000	May 2017	Apr 2019	R.J130000.7722.4J282

64	Operation and Relief System Plan: Machine Learning And Drones For Disaster Response And Relief Operation	Researcher	UTM	UTMF	500,000	Mar 2017	Feb 2020	R.K130000.7843.4J276
65	Evaluation the Availability of Nutrients in Sewage Sludge for Plant Growth Enhance with Magnetic Fields	Researcher	UTM	Research University Grant – Tier 1	50,000	Nov 2015	Nov 2017	Q.J130000.2517.11H95
66	Evaluation of pilot scale wastewater treatment employing diatomite	Researcher	UTM	Flagship	100,000	May 2015	Mar 2018	Q.K130000.2443.03G25
67	Water Quality Assessment and Modeling of Sg. Johor Basin	Researcher	UTM	Flagship	101,500	Mar 2015	June 2016	Q.J130000.2409.03G03
68	Treatment System for Rural Household Water Supply in Lao People's Democratic Republic	Researcher	Others	SJT	70,000	Dec 2014	Dec 2017	R.J130000.7809.4L153
69	Effect of Different Magnetic Field Adaptation on The Microbial Diversity, Activity and Settling Of Activated Sludge In Sequencing Batch Reactors	Researcher	Ministry of Education	FRGS	116,000	Dec 2014	May 2017	R.J130000.7817.4F601

70	Development Of polycyclic Aromatic Hydrocarbons (Pahs) Degradation Method Using Consortium of Crude Enzyme Isolated from Fungus and Earthworm (Eisenia Fetida)	Researcher	Others	SF	146,700	Aug 2014	Jan 2017	R.J130000.7909.4S110
71	Enhanced Biogas Production during Anaerobic Digestion of Microalgal Biomass (Postdoctoral Scholarship)	Junior Research at Newcastle University	Others	Ministry of Education	Postdoctoral Scholarship	Sept 2010	Oct 2011	Postdoctoral Scholarship

RESEARCH GRANT TYPE	NO. OF GRANTS / FUNDS	TOTAL FUNDS
Local	61	MYR 7,645,375
Industrial	4	MYR 287,600
International	6	MYR 2,305,023

COLLABORATION / MOU

NO	NAME OF MOU	ROLE	LEVEL OF MOU (NATIONAL/ INTERNATIONAL)	STARTING DATE	ENDING DATE
1	Letter of Agreement (LoA) [RED-UC, AUN/SEED-NET] - Research And Education Grant For Innovative Environmental Engineering Solutions (GENES)	Leader	International	Jul 2023	Dec 2025
2	Memorandum of Agreement (MoA) Collaborative Education Program For Sustainable Environmental Engineering Network (CEP-SEEN)	Leader	International	Mac 2022	Dec 2023
3	Memorandum of Agreement (MoA) The 9th Aun/Seed-Net Regional Conference Natural Disaster (RCND 2021)	Leader	International	Dec 2021	Dec 2023
4	Memorandum of Cooperation (MoC) Fasa Ke-2 Japan-Asean Science, Technology and Innovation Platform (JASTIP) between Kyoto University, Japan, Indonesian Institute of Sciences, Indonesia, National Science & Technology Development Agency, Thailand and MJIIT, UTM	Leader	International	Sept 2020	March 2025
5	MoU between Nippon Koei Co., Ltd. Japan with Universiti Teknologi Malaysia (UTM).	Leader	International	August 2018	August 2023
6	Collaborative Research Agreement between National Cheng Kun University, Taiwan, Universitas Gadjah Mada, Indonesia, Nikken Sohonsa Corporation, Jepun and Nippon Koei Co. Ltd., Jepun with MJIIT UTM, Malaysia.	Leader	International	2020	2025

7	MoU between Universitas Gadjah Mada And Universiti Teknologi Malaysia	Leader	International	Jan 2019	Jan 2024
8	MoA between MJIT/DPPC DPEC/NCKU Dan	Leader	International	May 2017	May 2022
9	MoU between UTM & NCKU	Leader	International	June 2017	June 2022

TEACHING ACTIVITIES

➤ UNDERGRADUATE

YEAR OF SEMESTER	SEMESTER (1/2)	SUBJECT CODE	NAME OF SUBJECT	CREDIT HOUR	SECTION
2023/2024	2	SMJC4533	Pengurusan Sisa Pepejal dan Berbahaya	3	1
2023/2024	1	SMJC4523	Wastewater Engineering	3	1
2022/2023	2	SMJC4533	Pengurusan Sisa Pepejal dan Berbahaya	3	1
2022/2023	1	SMJC4523	Wastewater Engineering	3	1
2021/2022	2	SMJC4533	Pengurusan Sisa Pepejal dan Berbahaya	3	1
2021/2022	1	SMJC4523	Wastewater Engineering	3	1
2020/2021	2	SMJC4533	Pengurusan Sisa Pepejal dan Berbahaya	3	1&2
2020/2021	1	SMJC4523	Wastewater Engineering	3	1
2019/2020	2	SMJC4533	Pengurusan Sisa Pepejal dan Berbahaya	3	1&2
2018/2019	1	SMJC4533	Pengurusan Sisa Pepejal dan Berbahaya	3	1
2018/2019	1	SMJC4813	Final Year Project 1	3	1
2017/2018	1	SMJC4813	Final Year Project 1	3	1
2017/2018	1	SMJC4533	Pengurusan Sisa Pepejal dan Berbahaya	3	1
2016/2017	2	SMJC4533	Pengurusan Sisa Pepejal dan Berbahaya	3	1
2016/2017	1	SMJC4523	Wastewater Engineering	3	1
2014/2015	2	SKAA4034	Projek Sarjana Muda	4	1
2014/2015	1	SKAA1012	Asas Kejuruteraan Awam	2	1,2&3
2014/2015	1	SKAA4973	Olahan Sisa Industri dan Berbahaya	3	1
2013/2014	2	SAB4973	Pengolahan Sisa Industri dan Sisa Berbahaya	3	1

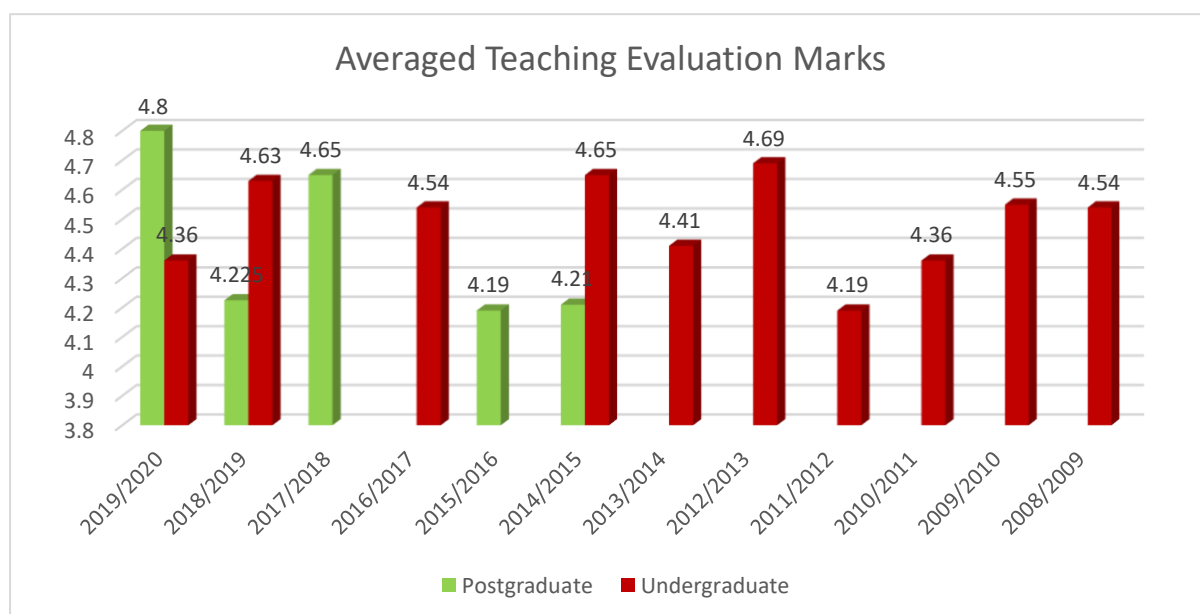
2013/2014	1	SAB4973	Pengolahan Sisa Industri dan Sisa Berbahaya	3	1
2013/2014	1	SKAA1012	Asas Kejuruteraan Awam	2	1,2,3,4&5
2012/2013	2	SAB4973	Pengolahan Sisa Industri dan Sisa Berbahaya	3	1
2012/2013	2	SAB4034	Projek Sarjana Muda	4	1
2012/2013	2	SAB4022	Pra Projek	2	1
2012/2013	1	SKAA2922	Kejuruteraan Air Sisa	2	2
2012/2013	1	SAB4032	Pra Projek	2	1
2012/2013	1	SAB4034	Projek Sarjana Muda	4	1
2012/2013	1	SKAA1012	Civil Engineering Fundamentals	2	1
2011/2012	2	SAB4973	Pengolahan Sisa Industri dan Sisa Berbahaya	3	1
2011/2012	2	SAB2922	Kejuruteraan Air Sisa	2	2
2011/2012	1	SAB2922	Kejuruteraan Air Sisa	2	2
2010/2011	1	SAB4973	Pengolahan Sisa Industri dan Sisa Berbahaya	3	1
2009/2010	2	SAB4973	Pengolahan Sisa Industri dan Sisa Berbahaya	3	1
2009/2010	2	SAB2922	Kejuruteraan Air Sisa	2	1
2009//2010	2	SAB4022	Pra Projek	2	1
2009/2010	1	SAB2922	Kejuruteraan Air Sisa	2	3
2009/2010	1	SAB4973	Pengolahan Sisa Industri dan Sisa Berbahaya	3	1
2008/2009	2	SAB4022	Pra Projek	2	1
2008/2009	2	SAB4034	Projek Sarjana Muda	4	1
2008/2009	2	SAB2912	Olahan Air	2	1
2008/2009	2	SAB4973	Pengolahan Sisa Industri dan Sisa Berbahaya	3	1
2008/2009	1	SAB3011	Makmal Alam Sekitar	1	1
2008/2009	1	SA B4973	Pengolahan Sisa Industri dan Sisa Merbahaya	3	1
				TOTAL CREDIT HOUR = 118	

➤ **POSTGRADUATE**

YEAR OF SEMESTER	SEMESTER (1/2)	SUBJECT CODE	NAME OF SUBJECT	CREDIT HOUR	SECTION
2023/2024	2	MMJP1183	Research Methodology	3	1
2023/2024	1	MMJP1183	Research Methodology	3	1
2022/2023	2	MMJP1183	Research Methodology	3	1
2022/2023	1	MMJP1183	Research Methodology	3	1
2021/2022	2	MMJP1183	Research Methodology	3	1
2021/2022	1	MMJP1183	Research Methodology	3	1
2020/2021	2	MMJS1313	Industrial Ecology and Cleaner Production	3	1
2020/2021	1	MMJS1353	Integrated Water Science and Technology	3	1
2019/2020	2	MMJS1313	Industrial Ecology and Cleaner Production	3	1
2019/2020	1	MMJS1113	Applied Sustainable System	3	1
2019/2020	1	MMJS1373	Low Carbon Cities	3	1
2018/2019	2	MMJS1113	Applied Sustainable System	3	1
2018/2019	2	MMJS1313	Industrial Ecology and Cleaner Production	3	1
2017/2018	3	MMJS1353	Integrated Water Science and Technology	3	1
2017/2018	2	MMJS1113	Applied Sustainable System	3	1
2017/2018	1	MMJP1183	Research Methodology	3	2&3
2016/2017	2	MMJD1233	Pengurusan dan Sistem Sungai	3	1
2016/2017	2	MMJP1183	Research Methodology	3	2
2016/2017	1	MMJP1183	Research Methodology	3	2
2015/2016	2	MJP1183	Research Methodology	3	2
2015/2016	2	MMJP1183	Research Methodology	3	2
2015/2016	2	UJP0010	Research Methodology	0	2
2015/2016	2	UMJP0010	Research Methodology	0	2
2015/2016	1	MKAK1053	Pengurusan Sisa Pepejal	3	1
2015/2016	1	UAP0010	Metodologi Penyelidikan	0	1
2015/2016	1	UAP0013	Metodologi Penyelidikan	0	1
2014/2015	2	MAKAK1333	Proses Olahan Biologi	3	1
				TOTAL CREDIT HOUR = 69	

TEACHING EVALUATION (e-PPP)

NO	SESSION	NO OF COURSES	POSTGRADUATE	UNDERGRADUATE
1	2019/2020	4	4.80	4.36
2	2018/2019	4	4.23	4.63
3	2017/2018	6	4.65	-
5	2016/2017	5	-	4.54
6	2015/2016	8	4.19	-
7	2014/2015	5	4.21	4.65
8	2013/2014	7	-	4.41
9	2012/2013	2	-	4.69
10	2011/2012	3	-	4.19
11	2010/2011	1	-	4.36
12	2009/2010	1	-	4.55
13	2008/2009	3	-	4.54



SUPERVISION

➤ PhD STUDENTS (MAIN SUPERVISOR)

NO	NAME	STATUS (GRADUATED/ ONGOING)	TITLE	DATE
1	Mohd Azmir bin Mustapa	Ongoing	Functionalized Porous Multimode Fiber For Mercury Hg Detection	-

2	Syamsul Azlan bin Saleh	Graduated	Flash Flood Susceptibility Modelling	2023
3	Norbaya Hashim	Ongoing	Analysis of different therapeutic classes of pharmaceuticals in Malaysian aquatic environment using online SPE-LC-MS/MS: A case study of Langat River basin	-
4	Nur Alyaa Zahidan	Graduated	Biodegradation and microbial interaction of pharmaceuticals in up-flow anaerobic sludge blanket (UASB) reactor.	2023
5	Siti Hafsah Binti Zulkarnain	Graduated	Development of natural disaster framework in determining residential property value using economic valuation method.	Jan 2021
6	Zainab Haider Mussa	Graduated	Electrochemical oxidation of pharmaceuticals using graphite-poly vinyl chloride composite anode: monitoring of the by-products using LC-TOF/MS	Oct 2020
7	Saidu Mohamed	Graduated	Anaerobic digestion of palm oil mesocarp fiber with cattle manure for biogas production	Feb 2014

➤ PhD STUDENTS (CO-SUPERVISOR)

NO	NAME	STATUS (GRADUATED/ ONGOING)	TITLE	DATE
1	Eri Sahabudin	Graduated	Characterization of Acid Tolerance and Fatty Acid Accumulation Profile of <i>Stichococcus bacillaris</i> strain P1 isolated from a Tropical Peat soil and the ability of the strain to utilize peat water for growth media	2023
2	Laila Dina Amalia Purba	Graduated	Treatment of domestic wastewater utilizing aerobic granulation technology	2023
3	Mohsen Rajabali Pour	Ongoing	Framework Stakeholders Management for Sub	-

			Contractors in Malaysia Construction Industry	
4	Amrul Faruq	Ongoing	Intelligent Flood Forecasting for Disaster Risk Reduction using Committee Machine Learning Techniques	-
5	Nor Aslina binti Abd Jalil	Ongoing	Water Quality Implications after the 2015 Earthquake in Mesilau River Kundasang Sabah	-
6	Hazlami Fikri bin Basri	Graduated	Rapid Aerobic Granulation by using Diatomite in Sequencing Batch Reactor System for Treating Domestic Wastewater	Dec 2020
7	Mimi Suliza bt Muhamad	Graduated	New emerging pollutants (NEP) removal using membrane processes	Nov 2016
8	Tijani Hamzat Ibiyeye	Graduated	Biomethanation of microalgae biomass in anaerobic digestion system	June 2017

➤ **MASTER BY RESEARCH (MAIN SUPERVISOR)**

NO	NAME	STATUS (GRADUATED/ ONGOING)	TITLE	DATE
1	Siti Fairuz Zainuddin	Ongoing	Influence of changes in hydraulic retention time on granular sludge performance using pilot scale upflow anaerobic sludge blanket reactor.	-
2	Khen Chanlyda	Graduated	Treatment and Recovery of heavy metals from leachate using microalgae-bacteria aerobic granular sludge	2023
3	Dhaneswara Ilmasari	Graduated	Microalgae-bacteria aerobic granular sludge for leachate treatment and lipid production	2023
4	Le Minh Quan	Graduated	Comparison between gasification and incineration for electricity and heat recovery from sewage sludge treatment by process modelling	2023
5	Alijah binti Mohd Aris	Graduated	Selection of facultative anaerobic bacteria in activated sludge to promote energy reduction in wastewater treatment plant	2023

6	Sandra Anak Ligong	Ongoing	Estimation of Soil Water Index of the Occurred Debris and Mud Flow in Cameron Highlands	-
7	Muhammad Bin Hasim	Graduated	Impact of Flood on Property Value	2022
8	Rakhmania	Graduated	Characterization of Biofilm during Anodic Oxidation Treatment of Agro-Based Wastewater.	2022
9	Harisham bin Abu Sama	Ongoing	Water Quality Assessment using Water Quality Index and Biological Water Quality Index for Selected Tributaries of Sungai Selangor.	-
10	Heng Bunmanut	Ongoing	Variability and Trend Analysis of Discharge and Sediment Yields in Jelai River Basin, Pahang Sub-Catchment.	-
11	Nik Nurhidayu binti Nik Mut	Graduated	Biodegradation of volatile organic compounds (VOCs) using immobilized yeast strain and activated sludge in a fluidized bed bioreactor.	2019
12	Hengky Kurniawan Salim	Graduated	A holistic perspective on the environmental management system adoption factors in the food and beverages industry: The case of East Java.	2018
13	Mohammad Nabil Fikri bin Yahaya	Graduated	A micro-pollutants removal using membrane filtration for safe drinking water.	2016
14	Nur Anis binti Ahmad Lutpi	Graduated	Removal of micro-pollutant in water by membrane filtration process for safe drinking water.	2015
15	Ain Zubaidah binti Mohd Sabri	Graduated	Anaerobic co-digestion of palm oil mesocarp fibre with cattle manure for biogas production.	2015
16	Mohamad Syahrul Syazwan bin Yaacob	Graduated	Inhibition of sulfate-reduction bacteria to enhance methane yield in anaerobic digester	2015

➤ **MASTER BY RESEARCH (CO-SUPERVISOR)**

NO	NAME	STATUS (GRADUATED/ ONGOING)	TITLE	DATE
1	Kong Leangkim	Graduated	Sediment Flushing of Dam Operational Water Release: Water Quality Impacts and Mitigation Measures	2023
2	Sasmitha Aulia Zahra	Graduated	Extraction and characterisation of alginate-like exopolysaccharides (ALE) from microalgae-bacteria aerobic granular sludge (MBGS)	2023
3	Nguyễn Thị Cẩm Tú	Graduated	Prevention of soil erosion by the BSC-Method using Klebsormidium BSC-1 in Malaysia	2023
4	Chheang Pothiphimean	Graduated	Isolation of the indigenous microalgae in Malaysia for the prevention of soil erosion by BSC Method	2023
5	Karn Tanavarotai	Graduated	Storage Condition, Reactivation, and Performance of a long-term storage dried aerobic granular sludge	2023
6	Laila Dina Amalia Purba	Graduated	Treatment of Domestic Wastewater Utilizing Aerobic Granulation Technology	2020
7	Siti Nur Atikah binti Yahya	Graduated	Study on Environmental Sustainability of Palm Oil Production in Malaysia.	2020
8	Yasmin Munirah binti Mat Zaini	Graduated	Biodegradation of Pharmaceutical Residuals in Sequencing Batch Reactor.	2020
9	Mohammad Budiman bin Pauzan	Graduated	Batch microcosm studies of landfill leachate.	2016
10	Syamimi binti Md Jamal	Graduated	Extraction of alginate-like polysaccharides from aerobic granular sludge	2016
11	Siti Baizura Binti Mahat	Graduated	Development of anaerobic stage reactor prototype to reduce organic content in recalcitrant wastewater	2012

➤ **MASTER BY TAUGHTCOURSE (MAIN SUPERVISOR)**

NO	NAME	STATUS (GRADUATED/ ONGOING)	TITLE	DATE
1	Yang Hang	Graduated	Activated Carbon from Coconut Shells and Rice Husks for Portable Membrane Filter	2019
2	Rosnani binti Alkarimiah	Graduated	Operational start-up and performance of anaerobic stage reactor treating glucose synthetic wastewater	2009

➤ **MASTER BY TAUGHTCOURSE (CO-SUPERVISOR)**

NO	NAME	STATUS (GRADUATED/ ONGOING)	TITLE	DATE
1	Sabariah binti Abdul Rahman	Graduated	Effect of temperature on submerged membrane activated sludge reactor	2009
2	Chun Fu Lai	Graduated	Degradation of mecoprop in laboratory sequencing batch reactor combined with anoxic and aerobic biological treatment process	2005

UTM POSTGRADUATE EXAMINATION / VIVA

➤ **PhD**

NO	ROLE	NAME OF STUDENT	TITLE	YEAR
1	Internal Examiner	Mohamad Asari bin Daud	Development of Expert System Algorithms for Design of Water Treatment Plant Upgrading Works	Oct 2019
2	Chair of MJIT First Stage Evaluation Seminar Sem II, Session 2018/2019	Mostafa Yusefi	Performance of cow dung reinforced biodegradable poly (Lactic Acid) bio-composites for structural applications	July 2019
3	Internal Examiner	Athirah binti Othman	Removal Scale in Water Pipeline with Magnetic Field, Faculty of Civil Engineering, UTM	2018
4	Co-Chair Viva	Noor Hasyimah Binti Rosman	PhD Civil Engineering	2015

5	Co-Chair Viva	Mohd Khairul Bin Khamidon	PhD Civil Engineering	2015
6	Internal Examiner for Research Progress	Ahmad Hanis Omar @ Omiri	Development of Nano magnetized Bio granules for Textile Wastewater Treatment	Nov 2013
7	Internal Examiner for Research Progress	Rozi binti Mohd Zin	Augmentation Solution for Enhancement of Microbial Granules Formation Used in Bio granulation Wastewater Treatment	Nov 2013

➤ MASTER BY RESEARCH

NO	ROLE	NAME OF STUDENT	TITLE	YEAR
1	Internal Examiner	Ulfah Baidurah binti Kamaruddin	Improvisation on Current Recycling Policy of Solid Waste Management: A Case Study in Institutional Kuala Lumpur, Malaysia.	Aug 2018
2	Internal Examiner	Yamuna A/P Manickam	Characterization of Activated Carbon from Durian Waste for Klang River Water Quality Improvement	Oct 2016
3	Internal Examiner	Muhamad Ezral bin Ghazali	Conjunctive Use of Natural Organic and Inorganic Coagulants in Water Treatment.	Aug 2016
4	Internal Examiner	Mohd Danial bin Muhd Ali	Biogas Production of Hydrothermal Pre-Treated Oil Palm Empty Fruit Bunch by Anaerobic Digestion.	Aug 2016
5	Internal Examiner	Yus Amira binti Yusaimi	Identification and Molecular Characterization of Pathogenic Multidrug-Resistant <i>Eschericia coli</i> Isolated from River in Kuala Lumpur.	June 2016
6	Chairman Viva	Nurafifah Binti Mohd Nor	M. Eng Civil Engineering	2015
7	Internal Examiner for 1 st Stage Evaluation	Siti Izaidah binti Azmi	Development and Characteristics of Aerobic Granular Sludge at 40°C	Apr 2014

8	Internal Examiner	Payam Moradi	Effect of pH, Hydraulic Retention Time and Substrates on Tertiary Treatment of POME Using Biogranules	Feb 2012
9	Internal Examiner	Shokouh Alsadat Rahsepar	Effect of Electron Donor and Redox Mediator on Biogranulation Treatment of Textile Wastewater	Jan 2012

➤ MASTER BY TAUGHTCOURSE

NO	ROLE	NAME OF STUDENT	TITLE	YEAR
1	Internal Examiner for Project Report 1	Barbara Siman Dominic Demong	Measuring the Effectiveness of My Hijau Mark in Influencing the Consumption and Production of Green Products and Services in Klang Valley.	Dec 2018
2	Internal Examiner	Rosli Bin Ahmad	Tsunami Awareness and Preparedness Among Community Pulau Betong Village	
3	Internal Examiner – Dissertation	Saffaatul Husna binti Ismail	Effect of Magnetic Fields on Physical Properties and Nutrient Contents of Sewage.	Feb 2014
4	Internal Examiner – Dissertation	Athirah binti Othman	Impact of Waterfront Development Towards Water Quality of Sungai Danga	Feb 2014

SUMMARY OF SUPERVISION (Completed)

Degree	Status	FYP/Dissertation/Thesis Supervision		Total Graduated
		Main Supervisor	Co-supervisor	
Final Year Project (Bachelor)	Internal	28	0	28
	External	0	0	
Master by Taught Course	Internal	2	2	4
	External	0	0	
Master by Research	Internal	6	6	12
	External	0	0	
PhD	Internal	3	3	6
	External	0	0	

EXTERNAL POSTGRADUATE EXAMINATION / VIVA

➤ PhD

NO	ROLE	NAME OF STUDENT	TITLE	YEAR
1	External Examiner	Sri Fitria Retnawaty	Heavy Metal Concentrations in the Rupa Strait and the Risks to Public Health (UMK)	August 2024
2	External Examiner	Nurul Ain Hamiruddin	Impact of Sequencing Batch Reactor Granular Sludge (AGS) Formation and Stability in Treating Fluctuating Sewage Wastewater (USM)	July 2024
3	External Examiner	Afzal Husain Khan	Treatment Of Ciprofloxacin Antibiotic Using Pumice-Bentonite/Carbon Nanotube Composite Adsorbent (USM)	Feb 2024
4	External Examiner	Humaira Gul Zaman	Development of Chitosan-Metal Organic Framework Composite for the Adsorption of Heavy Metals (UTP)	Dec 2022
5	External Examiner	Mohd Azhar bin Abd Hamid	Zeolite Augmented Electrocoagulation Process for Removing Ammonia and Colour in Saline Landfill Leachate (USM)	Sept 2020
6	External Examiner	Jamal Ali Kawan	Effluent Polishing of Organic Compounds And Nutrient in Treated Sewage Using A Moving Bed Biofilm Reactor (UKM)	August 2020
7	External Examiner	Nor Azalina Bt Rosli	Sewage Sludge and Red Gypsum Composite Applicability as an Alternative Material for Intermediate Landfill Cover (USM)	May 2020
8	External Examiner	Wan Nur Fazlina Abdol Jani	Bio-Pemulihan Logam Berharga daripada Sisa Elektronik Papan Litar, Bercetak Menggunakan <i>Chromobacterium violaceum</i> (UKM)	Sept 2019

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➤ **MASTER BY RESEARCH**

NO	ROLE	NAME OF STUDENT	TITLE	YEAR
1	External Examiner	Nursyafi Amila Hilmy	Effect of biochar and non-ionic surfactant on bacterial community and lignocellulos degradation during EFB composting in thermophilic condition using rotary drum (USM)	Oct 2023
2	External Examiner	Shefaa Omar Abu Nassar	Ultrasonic-Assisted Electrocoagulation Process to Remove Oil and Grease from Restaurant Wastewater (USM)	June 2023
3	External Examiner	Nur Hayati Mohd Yusoff	Oil Palm Starch as Coagulant and Aid in Semi-Aerobic Landfill Leachate Treatment (USM)	July 2022
4	External Examiner	Ainun Syakirah Binti Bahruddin	Efficiency of Zeolite-Clay Based Pellet on Treating Phosphorus and Nitrogen in Wastewater (UNITEN)	Feb 2020
5	External Examiner	Mubeen Alsarhan	Heavy metal removal using red algae non-living biomass and activated carbon (UTP)	July 2019
6	External Examiner	Momina	Regeneration Potential of Bentonite Based Adsorbent Coating (Paintosorp) (USM)	Apr 2019
7	External Examiner	Mohd Sharizal bin Mohd Sapingi	Geological Prediction Ahead of Tunnel Face in the Limestone Formation Tunnel Using Multi-Modal Geophysical Survey (USM)	Sept 2018
8	External Examiner	Muhammad Fadhlullah B Abu Bakar	Moisture Content Behaviour in green Roofs: Influence of Plant Species and Substrate types. (UNITEN)	May 2017

9	External Examiner	Noor Amiza binti Ab Aziz	Kajian Model Fizikal Sistem Penapisan Dasar Sungai untuk Penyingkiran Kekeruhan, Warna dan Pepejal Terampai untuk Penjernihan Air (USM)	May 2017
10	External Examiner	Siti Nurjaliah Muhammad	Remediation of Acid Mine Drainage using Sulfate-Reducing Bioreactor (UPM)	June 2016
11	External Examiner	Badariah Bt Mokhtar	Investigation on Resource Efficiency using Material Flow Cost Accounting in an SME Noodle Factory (UM)	Jan 2016

PUBLICATIONS

➤ JOURNAL h-index: 11 (Web of Science) 11 (SCOPUS) 14 (Google Scholar)

	ARTICLE TITLE	JOURNAL TITLE	ISSN	VOL	ISSUES	PAGE	PUBLICATION YEAR	IF	TYPE OF PUBLICATION	CATEGORY OF PUBLICATION	QUARTILE RANKING	CATEGORY AUTHOR
1	Influence of organic loading on the performance and microbial community structure of an anaerobic stage reactor treating pharmaceutical wastewater	Desalination	ISSN: 0011-9164	Vol 27	Issue-1-3	pp. 257-264	Apr 2011	7.098	Web of Science	Engineering, Chemical, Water Resources	Q1	Chelliapan, S., Wilby, T., Yuzir, A. , Sallis, P. J.
2	Influence of step increases in hydraulic retention time on (RS)-MCPP degradation using an anaerobic membrane bioreactor.	Bioresource Technology	ISSN: 0960-8524	Vol 102	Issue-20	pp. 9456-9461	Oct 2011	7.539	Web of Science	Biotechnology & Applied Microbiology	Q1	Yuzir, A. , Chelliapan, S., Sallis, P. J.
3	Cultivation of oyster mushroom (Pleurotus spp.) on palm oil mesocarp fibre.	African Journal of Biotechnology	ISSN: 1684-5315	Vol 10	Issue-71	pp. 15973-15976	Nov 2011	0.573	Web of Science	Biotechnology & Applied Microbiology	Q4	Saidu, M., Salim, M. R., Yuzir, M. A. M.
4	Performance of an innovative multi-stage anaerobic reactor during start-up period.	African Journal of Biotechnology	ISSN: 1684-5315	Vol 10	Issue-54	pp. 11294-11302	2011	0.573	Web of Science	Biotechnology & Applied Microbiology	Q4	Alkarimiah, R., Mahat, S. B., Yuzir, A. , Din, M. F. M., Chelliapan, S.
5	Tolerance of The Antibiotic Tylosin On Treatment Performance of An Up-Flow Anaerobic Stage Reactor (Uasr)	Water Science and Technology	ISSN: 0273-1223	Vol 63	Issue-8	pp. 1599-1606	2011	1.638	Web of Science	Engineering, Environmental	Q4	Chelliapan, S Wilby, T, Sallis, PJ, Yuzir, A
6	Anaerobic Pre-treatment of Pharmaceutical Waste water using Packed Bed Reactor	International Journal Of Chemical Engineering And Applications	ISSN: 2010-0221	Vol 2	Issue 1	Pp. 32-37	2011	-	Journal Article Non Citation-Indexed	Chemistry, Technology	-	Chelliapan, S., Yuzir, A. , Md Din, M. F., & Sallis, P. J.
7	Operational Start-Up Performance of an Innovative Anaerobic Stage Reactor (ASR) using Synthetic Wastewater	International Proceedings of Chemical, Biological and Environmental Engineering	ISSN: 2010-4618	Vol 12	-	133-137	2011	-	Journal Article Non Citation-Indexed	Chemistry, Technology	-	Alkarimiah, R., Mahat, S. B., Yuzir, A. , Din, M. F., & Chelliapan, S

8	Impact of the herbicide (RS)-MCP on an anaerobic membrane bioreactor performance under different COD/nitrate ratios.	Bioresource Technology	ISSN: 0960-8524	Vol 109	-	pp. 31-37	2012	7.539	Web of Science	Biotechnology & Applied Microbiology	Q1	Yuzir, A., Chelliapan, S., Sallis, P. J.
9	Chemical oxidation process for the treatment of antibiotic wastewater	International Journal of Engineering Research and Applications	ISSN: 2248-9622	Vol 2	Issue-6	pp. 80-86	2012	-	Non-Indexed publication	Chemistry, Technology	-	Briers, Hannah and Sallis, Paul J. and Muhammad Yuzir, Muhamad Ali and Abdullah, Norhayati and Shreeshivad asan,
10	Anaerobic Digestion of Paper Mill Wastewater	Iranica Journal of Energy & Environment	ISSN: 2079-2115	Vol 3	Issue-2	pp.104-108	May 2012	-	Non-Indexed publication	Environment	-	Chelliapan, S., Mahat, S. B., Din, M. D. F., Yuzir, A. , & Othman, N.
11	Characterization of aerobic granular sludge treating high strength agro-based wastewater at different volumetric loadings.	Bioresource Technology	ISSN: 0960-8524	Vol 127	-	pp. 181-187	Jan 2013	7.539	Web of Science	Biotechnology & Applied Microbiology	Q1	Abdullah, N., Yuzir, A. , Curtis, T. P., Yahya, A., Ujang, Z.
12	Effect of Mecoprop (RS)-MCP on the biological treatment of synthetic wastewater in an anaerobic membrane bioreactor.	Bioresource Technology	ISSN: 0960-8524	Vol 133	-	pp. 158-165	Apr 2013	7.539	Web of Science	Biotechnology & Applied Microbiology	Q1	Ali Yuzir , Norhayati Abdullah, Shreeshivadasan, Chelliapan Paul Sallis
13	Influence of palm oil mill effluent as inoculum on anaerobic digestion of cattle manure for biogas production.	Bioresource Technology	ISSN 0960-8524	Vol 141	-	pp. 174-176	2013	7.539	Web of Science	Biotechnology & Applied Microbiology	Q1	Saidu, M., Yuzir, A. , Salim, M. R., Salmiati, Azman, S., Abdullah N.

14	Performance of an anaerobic stage reactor (ASR) treating synthetic wastewater during start-up phase using palm oil mill effluent (POME) sludge.	Research Journal of Pharmaceutical, Biological and Chemical Sciences	ISSN: 0975-8585	Vol 4	Issue-4	pp. 1067-1076	2013	-	Publication in Scopus	Biological, Chemical Science	-	Mahat, S. B., Chelliapan, S., Yuzir, A. , Din, M. F., Anwar, A. N., Othman, N., Shamsuddin, S.
15	Impact of hydraulic retention time on the performance and archaea populations of an anaerobic reactor treating synthetic Tylosin wastewater.	Desalination and Water Treatment	ISSN: 1944-3994	Vol 52	Issue-19-21	pp. 3647-3653	May 2014	0.854	Web of Science	Engineering, Chemical, Water Resources	Q4	Chelliapan, S., Yuzir, A. , Din, M. F. M., Anuar, A. N., Ponraj, M., Sallis, P. J.
16	Biological pre-treated oil palm mesocarp fibre with cattle manure for biogas production by anaerobic digestion during acclimatization phase.	International Biodeterioration and Biodegradation, 95(PA),	ISSN: 0964-8305	Vol 95	Issue-S1	pp. 189-194	Nov 2014	4.074	Web of Science	Biotechnology & Applied Microbiology, Environmental Science	Q1	Saidu, M., Yuzir, A. , Salim, M. R., Salmiati, Azman, S., Abdullah, N.
17	Sequencing batch reactor for treatment of palm oil mill effluent	Journal of Pharmaceutical, Biological and Chemical Sciences	ISSN: 0975-8585	Vol 5	Issue-5	pp. 1242-1249	2014	-	Publication in Scopus	Pharmaceutical, Biological and Chemical Sciences	Q3	Abdullah, S. A., Majdi, N. M., Shikh Md Saud, S. F. R., Abdullah, N., Yuzir, A.
18	Reactivation of preserved aerobic granular sludge using palm oil mill effluent. Research	Journal of Pharmaceutical, Biological and Chemical Sciences	ISSN: 0975-8585	Vol 5	Issue-4	pp. 519-527	2014	-	Publication in Scopus	Pharmaceutical, Biological and Chemical Sciences	Q3	Abdullah, N., Ashtari N., Yuzir, A.
19	A proposed aerobic granules size development scheme for aerobic granulation process.	Bioresource Technology	ISSN: 0960-8524	Vol 181	-	pp. 291-296	Apr 2015	7.539	Web of Science	Biotechnology & Applied Microbiology, Energy & Fuel	Q1	Dahalan, F. A., Abdullah, N., Yuzir, A. , Olsson, G., Salmiati, Hamdzah, M., Din, M. F. M., Ahmad, S. A., Khalil, K. A., Anuar, A. N., Noor, Z. Z., Ujang, Z.

20	Rheological and fractal hydrodynamics of aerobic granules.	Bioresource Technology	ISSN: 0960-8524	Vol 186	-	pp. 276-285	Jun 2015	7.539	Web of Science	Biotechnology & Applied Microbiology, Energy & Fuel	Q1	Tijani, H. I., Abdullah, N., Yuzir, A. , Ujang, Z.
21	Fabrication of mixed matrix membrane incorporated with modified silica nanoparticles for bisphenol a removal.	Jurnal Teknologi	ISSN: 0127-9696	Vol 74	Issue-11	pp. 23-31	June 2015	-	Publication in Scopus	Engineering, Multidisciplinary	-	Muhamad, M. S., Salim, M. R., Lau, W. J., Yuzir, M. A. , Yunus, S.
22	Integration of microalgae biomass in biomethanation systems.	Renewable and Sustainable Energy Reviews	ISSN: 1364-0321	Vol 52	-	pp. 1610-1622	Dec 2015	12.11	Web of Science (Article)	Energy & Fuel, Green & Sustainable Science & Technology	-	Tijani, H., Abdullah, N., Yuzir, A.
23	The effect of water quality on removal of acetaminophen in surface water by ozonation process.	Jurnal Teknologi	ISSN: 0127-9696	Vol 74	Issue-11	pp. 1-7	2015	-	Publication in Scopus	Engineering, Multidisciplinary	-	Lutpi, N. A. A., Yuzir, M. A. M. , Yong, E. L., Salim, M. R., Yusop, Z., Salmiati
24	Fabrication Polyethersulfone Mixed Matrix Membrane Incorporated with Silica Naoparticles For Bpa Removal	Jurnal Teknologi	ISSN: 2180-3722	Vol 74	Issue-11	pp. 24-31	Nov 2015	-	Publication in Scopus	Mechanical engineering	-	M. S. Muhamad, M. R. Salim, W. J. Lau, M. A. Yuzir, S. Yunus
25	Assessing the treatment of acetaminophen-contaminated brewery wastewater by an anaerobic packed-bed reactor.	Journal of Environmental Management	ISSN: 0301-4797	Vol 168	-	pp. 273-279	Mar 2016	5.647	Web of Science	Environmental Science	Q1	Abdullah, N., Fulazzaky, M. A., Yong, E. L., Yuzir, A. , Sallis, P.
26	Optimization of methane production process from synthetic glucose feed in a multi-stage anaerobic bioreactor.	Desalination and Water Treatment	ISSN: 1944-3994	Vol 57	Issue-60	pp. 29168-29177	Dec 2016	0.854	Web of Science	Engineering, Chemical, Water Resources	Q4	Shahperi, R., Din, M. F. M., Chelliapan, S., Aris, M. A. M., Selvam, S. B., Abdullah, N., Yuzir, M. A. M.

27	Addition of ferric chloride in anaerobic digesters to enhance sulphide removal and methanogenesis.	Desalination and Water Treatment	ISSN: 1944-3994	Vol 79	Issue-36	pp. 64-72	Jun 2017	0.854	Web of Science	Engineering, Chemical, Water Resources	Q4	Yuzir, A. , Yaacob, S. S., Tijani, H. I., Abdullah, N., Ahmed, Z.
28	Performance of an up-flow anaerobic sludge bed (UASB) reactor for treating landfill leachate containing heavy metals and formaldehyde.	Desalination and Water Treatment	ISSN: 1944-3994	Vol 86	Issue-36	pp. 51-58.	Aug 2017	0.854	Web of Science	Engineering, Chemical, Water Resources	Q4	Selvam, S. B., Chelliapan, S., Din, M. F. M., Nasri, N. S., Abdullah, N., Yuzir, A.
29	Qualitative methods to identify potential strains for partial degradation of oil palm mesocarp fibre.	Desalination and Water Treatment	ISSN: 1944-3994	Vol 89	Issue-36	pp. 280-286.	Sept 2017	0.854	Web of Science	Engineering, Chemical, Water Resources	Q4	Yuzir, A. , Sabri, A., Tijani, H., Abdullah, N., Shreeshivad asan, C.
30	Kaolin-nano scale zero-valent iron composite(K-nzvi): Synthesis, characterization and application for heavy metal removal.	Desalination and Water Treatment	ISSN: 1944-3994	Vol 100	Issue-36	pp. 168-177	Dec 2017	0.854	Web of Science	Engineering, Water resources	Q4	Sivarama Krishna, L., Soontarapa, K., Yuzir, A. , Kumar, V. A., Zuhairi, W. Y. W.
31	Impact of (RS)-MCP herbicide and sulphate on the treatment performance, kinetics and microbial diversity of anaerobic membrane bioreactor.	Journal of Environmental Chemical Engineering	ISSN: 2213-2929	Vol 5	Issue-6	pp. 5389-5395	Dec 2017	-	Publication in Scopus	Engineering, Environmental	-	Tijani, H., Yuzir, A. , Abdullah, N., Sallis, P.
32	Removal of Acid Blue25 from aqueous solutions using Bengal gram fruit shell (BGFS) biomass.	International Journal of Phytoremediation	ISSN: 1522-6514	Vol 19	Issue-5	pp. 431-438	2017	2.528	Web of Science	Environmental Science	Q2	Krishna, L. S., Yuzir A. , Yuvaraja, G., Ashokkumar, V.
33	Effect of organic loading rate (OLR) on the performance of modified anaerobic baffled reactor (MABR) supported by slanted baffles.	Desalination and Water Treatment	ISSN: 1944-3994	Vol 79	Issue-36	pp. 56-63	2017	0.854	Web of Science	Engineering, Chemical, Water Resources	Q4	Aris, M. A. M., Chelliapan, S., Md Din, M. F., Anuar, A. N., Shahperi, R., Selvam, S. B., Abdullah, N., Yuzir, A.

34	Towards sustainable food production: Exploring the opportunities and challenges in Indonesia.	Advanced Science Letters	ISSN: 1936-6612	Vol 23	Issue-9	pp. 8505-8510	2017	-	Publication in Scopus	Multidisciplinary	-	Salim, H. K., Padfield, R., Yuzir, A. , Mohamad, S. E.
35	Global trends in environmental management system and ISO14001 research.	Journal of Cleaner Production	ISSN: 0959-6526	Vol 170	Issue-30	pp. 645-653.	Jan 2018	7.246	Web of Science	Environmental Science	Q1	Salim, H. K., Padfield, R., Hansen, S. B., Mohamad, S. E., Yuzir, A. , Syayuti, K., Tham, M. H., Papaprgyropoulou, E.
36	Determination of Theobromine and Caffeine In Some Malaysian Beverages By Liquid Chromatography-Time-Of-Flight Mass Spectrometry	Tropical Journal of Pharmaceutical Research	ISSN: 1596-5996	Vol 17	Issue-3	529-535	Mar 2018	0.504	Web of Science	Pharmacology & Pharmacy	Q4	Al-Qaim, FF, Yuzir, A. , Mussa, ZH
37	Multi-parametric modelling and kinetic sensitivity of microalgal cells.	Algal Research	ISSN: 2211-9264	Vol 32	Issue-6	pp. 259-269.	Jun 2018	4.008	Web of Science	Biotechnology & Applied Microbiology	Q1	Tijani, H., Yuzir A. , Dagang, W. R. Z. W., Zamyadi, A., Abdullah, N.
38	Transportation of different therapeutic classes of pharmaceuticals to the surface water, sewage treatment plant, and hospital samples, Malaysia.	Water	ISSN: 2073-4441	Vol 10	Issue-7	pp. 916.	Jul 2018	2.544	Web of Science	Water Resources	Q2	Al-Qaim, F. F., Mussa, Z. H., Yuzir, A. , Abu Tahrim, N., Hashim, N., Azman, S.
39	Producing desulfurized biogas using two-stage domesticated shear-loop anaerobic contact stabilization system.	Waste Management	ISSN: 0956-053X	Vol 78	Issue-12	pp. 770-780	Aug 2018	5.448	Web of Science	Environmental Science	Q1	Tijani, H., Yuzir, A. , Abdullah, N.
40	Development and validation of a comprehensive solid-phase extraction method followed by LC-TOF/MS for the analysis of eighteen pharmaceuticals in influent and effluent of sewage treatment plants.	Analytical and Bioanalytical Chemistry	ISSN: 1618-2642	Vol 410	Issue-20	pp. 4829-4846.	Aug 2018	3.637	Web of Science	Chemistry, Analytical	Q1	Al-Qaim, F. F., Mussa, Z. H., Yuzir, A.

41	Full factorial experimental design for carbamazepine removal using electrochemical process: A case study of scheming the pathway degradation.	Journal of the Brazilian Chemical Society	ISSN: 0103-5053	Vol 29	Issue-8	pp. 1721-1731.	Aug 2018	1.399	Web of Science	Chemistry, Multidisciplinary	Q3	Al-Qaim, F. F., Mussa, Z. H., Yuzir, A. , Abdullah, M. P., Othman, M. R.
42	Property market price response to flood-hazard.	Natural Hazards (Article in press).	ISSN: 0921-030X	-	-	pp.1-16	Sept 2018	2.427	Web of Science (Article)	Water Resources	Q2	Razali, M. N., Zulkarnain, S. H., Tarmidi, Z., Ad Maimun, N. H., Mohd. Adnan, Y., Yuzir, M. A.
43	Elucidation and Characterization of New Chlorinated By-Products After Electrochemical Degradation of Hydrochlorothiazide Using Graphite-Poly Vinyl Chloride Electrode	Catalyst	ISSN: 2073-4344	Vol 8	Issue-11	Article 540	Nov 2018	3.52	Web of Science	Chemistry	Q2	Mussa, Zainab Haider; Al-Qaim, Fouad Fadhil; Yuzir, Ali
44	The fate of prazosin and levonorgestrel after electrochemical degradation process: Monitoring by-products using LC-TOF/MS.	Journal of Environmental Sciences	ISSN: 1001-0742	Vol 74	Issue-12	pp. 134-146	Dec 2018	3.556	Web of Science (Article)	Environmental Science	Q2	Al-Qaim, F. F., Mussa, Z. H., Yuzir, A. , Latip, J., Othman, M. R.
45	Enhancing methane production of palm oil mill effluent using two-stage domesticated shear-loop anaerobic contact stabilization system.	Journal of Cleaner Production	ISSN: 0959-6526	Vol 200	Issue-30	pp. 971-981.	2018	7.246	Web of Science	Green & Sustainable Science & Technology	Q1	Tijani, H., Abdullah, N., Yuzir, A.
46	Evaluating the organizational intention to implement an Environmental Management System: evidence from the Indonesian food and beverage industry.	Business Strategy and the Environment	ISSN: 0964-4733	Vol 27	Issue-8	pp. 1385-1398.	2018	5.483	Web of Science (Article)	Environmental Science & Ecology	Q1	Salim, H. K., Padfield, R., Yuzir, A. , Mohamad, S. E., Kaida, N., Papargyropoulou, E., Nakamura, S.

47	Flood Hazard Information Map Using Geographical Information System (GIS) For Residential Community Resilience	Environment-Behaviour Proceedings Journal	ISSN: 2398-4287	Vol 4	Issue-10	pp. 149-158	Mar 2019	-	Web of Science	Environmental	-	Zulkarnain, SH, Siti Hafsa, Yuzir , MA, Razali, MN, Tarmidi, Z
48	Landfill leachate treatment by an anaerobic process enhanced with recyclable uniform beads (RUB) of seaweed species of Gracilaria.	Desalination and Water Treatment	ISSN: 1944-3994	Vol 143	Issue-36	pp. 208-216.	Mar 2019	0.854	Web of Science	Engineering, Water Resources	Q4	Selvam, S. B., Chelliapan, S., Din, M. F. M., Kamyab, H., Albat, S. K., Othman, N., Yuzir, A. , Nasir, N. S.
49	Parametric assessment of seasonal drought risk to crop production in Bangladesh.	Sustainability (Switzerland)	ISSN: 2071-1050	Vol 11	Issue-5	Article 1442	Mar 2019	2.576	Web of Science	Green & Sustainable Science & Technology	Q2	Alamgir, M., Mohsenipour, M., Homs, R., Wang, X., Shahid, S., Shiru, M. S., 28Alias, N. E., Yuzir, A.
50	Electro-transformation of mefenamic acid drug: a case study of kinetics, transformation products, and toxicity.	Environmental Science and Pollution Research	ISSN: 0944-1344	Vol 26	Issue-10	pp. 10044-10056	Apr 2019	3.056	Web of Science	Environmental Science	Q2	Mussa, Z. H., Al-Qaim, F. F., Yuzir, A. , Latip J.
51	Evaluation of parameter regionalization methods for flood simulations in Kelantan river basin.	International Journal of Innovative Technology and Exploring Engineering.	ISSN: 2278-3075	Vol 8	Issue-7	pp. 313-318.	May 2019	-	Publication in Scopus	Science, Technology	Q4	Chow, M. F., Jamil, M. M., Ros, F. C., Yuzir, M. A. M., Hossain, M. S.
52	Synthesis of Copper Oxide Nanowires-Activated Carbon (AC@CuO-NWs) and Applied for Removal Methylene Blue from Aqueous Solution: Kinetics, Isotherms, and Thermodynamics.	Journal of Inorganic and Organometallic Polymers and Materials	ISSN: 1574-1443	Vol 29	Issue-5	pp. 1658-1668	Sept 2019	1.941	Web of Science (Article in press)	Polymer Science	Q2	Lakkaboyana, S. K., Khantong, S., Asmael, N. K., Yuzir, A. , Wan Yaacob, W. Z.

53	Performance of Aerobic Granular Sludge for Domestic Wastewater Treatment	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	ISSN: 2278-3075	Vol 8	Issue-12	-	Oct 2019	-	Publication in Scopus - Article	Science, Technology	-	Laila Dina Amalia Purba, Norhayati Abdullah, Mohd Hakim Ab Halim, Ali Yuzir , Arash Zamyadi
54	A Review: Adaptation of Escape Route for A Framework of Road Disaster Resilient	IOP Conference Series	-	Vol 615	-	-	Oct 2019	-	Publication in Scopus	Material Science and Engineering	-	A A Redzuan, A N Anuar, R Zakaria, E Aminudin, N E Alias, M A M Yuzir and M R Alzahari
55	A review of climate change (floods) and economic attributes response to residential property value in Malaysia	Journal of Water and Climate Change	ISSN: 2040-2244	-	-	-	Dec 2019	1.254	Conference paper – Non-Index publication	Water Resources	-	Siti Hafsa Zulkarnain; Maki Tsujimura; Muhamad Ali Yuzir ; Muhammad Najib Razali; Zakri Tarmidi
56	Adsorption of acid blue 25 from aqueous solution using zeolite and surfactant modified zeolite.	Desalination and Water Treatment	ISSN: 1944-3994	Vol 150	Issue-36	pp. 348-360.	2019	0.854	Web of Science	Engineering, Water Resources	Q4	Sivarama Krishna, L., Soontarapa, K., Asmel, N. K., Kabir, M. A., Yuzir, A. , Wan Zuhairi, W. Y., Sarala, Y.
57	Effect of cetyltrimethylammonium bromide on the biosorption of acid blue 25 onto bengal gram fruit shell.	Desalination and Water Treatment	ISSN: 1944-3994	Vol 150	-	pp. 386-395.	2019	0.854	Web of Science	Engineering, Water Resources	Q4	Sivarama Krishna, L., Soontarapa, K., Asmel, N. K., Yuzir, A. , Wan Zuhairi, W. Y.

58	Removal Efficiency Of Gram-Positive And Gram-Negative Bacteria Using A Natural Coagulant During Coagulation, Flocculation, And Sedimentation Processes	Water Science And Technology	ISSN: 0273-1223	Vol 80	Issue-9	pp. 1787-1795	2019	1.638	Web of Science	Engineering, Environmental Sciences	Q4	Sha'arani, S., Azizan, S. N. F., Md Akhir, F. N., Muhammad Yuzir, M. A. , Othman, N. A., Zakaria, Z., ... & Hara, H
59	Prediction of shear wave velocity in underground layers using Particle Swarm Optimization.	IOP Conference Series	-	Vol 527	Issue-1	012012	2019	-	Publication in Scopus	Material Science & Engineering	-	Anak Upon, M. R., Asmawisham Alel, M. N., Ab Kadir, M. A., Yuzir, A.
60	Community responses on effective flood dissemination warnings—A case study of the December 2014 Kelantan Flood, Malaysia.	Journal of Flood Risk Management, e12552 (Article in press)	ISSN: 1753-318X	Vol 13	Issue-1	Article no e12552	Mar 2020	3.066	Web of Science (Article in press)	Environmental Science, Water resources	Q2	Alias, N. E., Salim, N. A., Taib, S. M., Mohd Yusof, M. B., Saari, R., Adli Ramli, M. W., Othman, I. K., Annammala, K. V., Yusof, H. M., Ismail, N., Yuzir, A. , Blenkinsop, S.
61	Assessment of changing pattern of crop water stress in Bangladesh	Environment, Development and Sustainability	ISSN: 1387585X	Vol 22	Issue-5	-	June 2020	-	Publication in Scopus	Engineering, Environmental Sciences & Ecology	-	Ahammed, S. J., Homsy, R., Khan, N., Shahid, S., Shiru, M. S., Mohsenipour, M., ... & Yuzir, A.

62	Production of Bio-Coke from spent mushroom substrate for a sustainable solid fuel.	Biomass Conversion and Biorefinery, 1-10.	ISSN: 2190-6815	Vol 1	Issue 10	-	July 2020	2.602	Web of Science	Energy & Fuels Engineering	Q2	Baharin, N. S. K., Koesoemadinata, V. C., Nakamura, S., Azman, N. F., Yuzir, M. A. M. , Akhir, F. N. M., ... & Hara, H.
63	Various applications of aerobic granular sludge: Review	Environmental Technology & Innovation	ISSN: 2352-1864	Vol 20	101045	-	July 2020	3.356	Elsevier, Science Direct	Engineering, Environmental Sciences & Ecology	Q2	Laila Dina Amalia Purba, Hamzat Tijanilbiyey, Ali Yuzir , Shaza Eva Mohamad, Koji Iwamoto, Arash Zamyadi, Norhayati Abdullah
64	Flow regime alteration analysis under climate change in Tonle Sap Subbasin	IOP Conference Series: Earth and Environmental Science	ISSN: 1755-1307	Vol 479	012007	-	July 2020	-	Scopus - Proceeding paper	Disaster Prevention and Mitigation	-	B Heng, C Oeurng, S Try and A Yuzir
65	Flood mapping using Sentinel-1 SAR Imagery: Case study of the November 2017 flood in Penang	IOP Conference Series: Earth and Environmental Science	ISSN: 1755-1307	Vol 479	012013	-	July 2020	-	Scopus - Proceeding paper	Flood Management	-	A. Saleh, A. Yuzir and I. Abustan

66	Comparison of Rainfall Interpolation Methods in Langat River Basin	IOP Conference Series: Earth and Environmental Science	ISSN: 1755-1307	Vol 479	012018	-	July 2020	-	Scopus - Proceeding paper	Flood Management	-	M Hassim, A Yuzir , M N Razali, F C Ros, M F Chow and F Othman
67	Anammox reactor treating low strength domestic wastewater: a review	IOP Conference Series: Earth and Environmental Science	ISSN: 1755-1307	Vol 479	012021	-	July 2020	-	Scopus - Proceeding paper	Flood Management	-	Thilagavathi Arumugham, Nur' Amirah Husaini, Ali Yuzir , Shaza Eva Mohamad, Koji Iwamoto and Norhayati Abdullah
68	Electrochemical removal of metoprolol using graphite-polyvinyl chloride composite as anode	IOP Conference Series: Earth and Environmental Science	ISSN: 1755-1307	Vol 479	012022	-	July 2020	-	Scopus - Proceeding paper	Flood Management	-	Z H Mussa, F F Al-Qaim, A Yuzir and K Shmeli
69	Diatomite carrier for rapid formation of Aerobic Granular Sludge	IOP Conference Series: Earth and Environmental Science	ISSN: 1755-1307	Vol 479	012028	-	July 2020	-	Scopus - Proceeding paper	Environmental Science	-	H F Basri, A N Anuar, Ali Yuzir and Mohd Hakim Ab Halim
70	Anaerobic Treatment Performance in Presence of Pharmaceutically Active Compounds.	In IOP Conference Series: Earth and Environmental Science	ISSN: 1755-1307	Vol 479	012029	-	July 2020	-	Scopus - Proceeding paper	Environmental Science	-	Azizan, N. A. Z., Yuzir, A. , Al-Qaim, F. F., & Abdullah, N.
71	Effects of pharmaceutical load on the effluent quality using sequencing batch reactor	IOP Conference Series: Earth and Environmental Science	ISSN: 1755-1307	Vol 479	012030	-	July 2020	-	Scopus - Proceeding paper	Environmental Science	-	Y.M. Mat Zaini, N. Abdullah and A. Yuzir
72	Characteristics and performance of aerobic granulation seeded with anaerobic bioflocs for treatment of domestic wastewater	IOP Conference Series: Earth and Environmental Science	ISSN: 1755-1307	Vol 479	012031	-	July 2020	-	Scopus - Proceeding paper	Environmental Science	-	L D A Purba, N Abdullah, A Yuzir and M H Ab Halim

73	Application of carbon nanotubes and graphene to develop the heavy metal electrochemical sensor	IOP Conference Series: Earth and Environmental Science	ISSN: 1755-1307	Vol 479	012036	-	July 2020	-	Scopus - Proceeding paper	Water Related Disaster & Water Supply and Sanitation	-	M A Mustapa, Sumiaty Ambran and Ali Yuzir
74	Flash Flood Susceptibility Modelling: A Review	IOP Conference Series: Materials Science and Engineering	ISSN: 1757-8981	Vol. 712	012005	-	Jan 2020	-	Scopus - Proceeding paper	Materials Science and Engineering	-	Saleh, A., Yuzir, A. , & Abustan, I.
75	Effect of operating parameter on the anaerobic digestion oil palm mesocarp fibre with cattle manure for biogas production	IOP Conference Series: Earth and Environmental Science.	ISSN: 1755-1307	Vol 476	012085	-	July 2020	-	Scopus - Proceeding paper	Water Related Disaster & Water Supply and Sanitation	-	Saidu, M., Yuzir, A. , Salim, M. R., Richard, A., & Afiz, B.
76	Conversion and characterization of Bio-Coke from abundant biomass waste in Malaysia.	Renewable Energy, 162, 1017-1025.	ISSN: 0960-1481	Vol 162	-	pp. 1017-1025	Dec 2020	-	Publication in Scopus	Renewable Energy	-	Baharin, N. S. K., Koesoemadinata, V. C., Nakamura, S., Yahya, W. J., Yuzir, M. A. M. , Akhir, F. N. M., ... & Hara, H.
77	A Brief Review On Biochemical Oxygen Demand (Bod) Treatment Methods For Palm Oil Mill Effluents (Pome)	Environmental Technology & Innovation	ISSN: 2352-1864	Vol 21	-	101258	2020	3.356	Web of Science	Environmental Technology & Innovation	Q2	Lokman, N. A., Ithnin, A. M., Yahya, W. J., & Yuzir, M. A.
78	Electrochemical Degradation of Metoprolol Using Graphite-Pvc Composite As Anode: Elucidation And Characterization Of New By-Products Using LC-TOF/MS	Journal of The Mexican Chemical Society	ISSN: 1870249X, 16659686	Vol 64	Issue-3	-	2020	0.49	Web of Science	Chemical	Q4	Al-Qaim, F. F., Mussa, Z. H., Yuzir, A. , & Shamelii, K.

79	Optimizing Ammonia Removal from Landfill Leachate Using Natural And Synthetic Zeolite Through Statically Designed Experiment	Arabian Journal for Science and Engineering	ISSN: 2193-567X	Vol 45	Issue-5	1-13	2020	1.711	Web of Science	Engineering, Science	Q3	Pauzan, M. A. B., Puteh, M. H., Yuzir, A. , Othman, M. H. D., Wahab, R. A., & Abideen, M. Z
80	Study of oil sorption behaviour of esterified oil palm empty fruit bunch (OPEFB) fibre and its kinetics and isotherm studies	Environmental Technology & Innovation	ISSN: 2352-1864	Vol 22	101397	-	Feb 2021	3.356	Elsevier, Science Direct	Environmental Technology & Innovation	Q2	Asadpour, R., Yavari, S., Kamyab, H., Ashokkumar, V., Chelliapan, S., & Yuzir, A.
81	Cultivation of aerobic granular sludge by modification of seeding condition.	Desalination And Water Treatment	ISSN: 1944-3994	Vol 223	-	280-289	2021	0.854	Web of Science	Engineering, Water Resources	Q4	Purba, Laila Dina Amalia; Yuzir, Ali ; Zamyadi, Arash; et al.
82	Can anaerobic intermediate stages affect the biotransformation and sorption of pharmaceutical compounds?	Desalination And Water Treatment	ISSN: 1944-3994	Vol 222	-	313-321	2021	0.854	Web of Science	Engineering, Water Resources	Q4	Azizan, NAZ., Yuzir, A. , Abdullah, N., Al-Qaim, FF
83	Potential of Microalgae in Bioremediation of Wastewater.	Bulletin Of Chemical Reaction Engineering And Catalysis	-	Vol 16	Issue-2	413-429	2021	-	Web of Science (Review)	Engineering, Chemical	-	Ahmad, I., Abdullah, N., Koji, I., Yuzir, A. , Mohamad, SE.
84	Photocatalytic removal of malachite green and brilliant blue dyes from its aqueous solution: A case study of factorial experimental design	Journal of the Mexican Chemical Society	ISSN: 2594-0317	Vol 65	Issue-2	247-255	2021	0.869	Web of Science	General Chemistry	Q4	Mussa, Z.H., Al-Qaim, F.F., Yuzir, A. , Shamel, K.
85	Limitation of nutrients stimulates musty odor production by streptomyces sp. Isolated from a tropical environment	Journal of General and Applied Microbiology	Online ISSN : 1349-8037	Vol 67	Issue-3	92-99	2021	-	Publication in Scopus	General Medicine	-	Shudirman, S., Kassim, A.A., Anuar, N.S.S., Yuzir, A. , (...), Sugiura, N., Hara, H.

86	The Contribution of Microalgae in Bio-refinery and Resource Recovery: A Sustainable Approach leading to Circular Bioeconomy	Chemical Engineering Transactions	ISSN: 2283-9216	Vol 89	-	391-396	2021	-	Publication in Scopus	General Chemical Engineering	-	Ahmad, I., Abdullah, N., Koji, I., Yuzir, A.
87	Rapid Development of Microalgae-Bacteria Granular Sludge Using Low-Strength Domestic Wastewater	Journal of Water and Environment Technology	Online ISSN : 1348-2165	Vol 19	Issue-2	96-107	2021	-	Publication in Scopus	Water Science and Technology	-	Purba, L.D.A., Abdullah, N., Yuzir, A. , (...), Shimizu, K., Hermana, J.
88	Occurrence and distribution of 17 targeted human pharmaceuticals in various aquatic environmental matrices in southeast asia with particular reference to Malaysia: A comprehensive review	Journal of the Mexican Chemical Society	ISSN: 2594-0317	Vol 65	Issue-3	434-456	2021	0.869	Web of Science (Review)	General Chemistry	Q4	Hashim, N., Yuzir, A. , Al-Qaim, F.F., Yahaya, N.K.E.M.
89	Isolation and Characterisation of Copper Leaching Microbes from Sanitary Landfill for E-waste Bioleaching	Journal of Advanced Research in Applied Sciences and Engineering Technology	ISSN: 2462-1943	Vol 23	Issue-1	56-66	2021	-	Publication in Scopus	Multidisciplinary	-	Razali, M.S., Hara, H., Riyadi, F.A., (...), Othman, N., Yuzir, M.A.M.
90	The effectiveness of biological pretreatment of oil palm empty fruit bunch on its conversion into Bio-Coke	Bioresource Technology Reports	ISSN: 2589-014X	Vol 15	-	-	2021	-	Elsevier, Science Direct	Environmental Engineering	-	Koesoemadinata, V.C., Chou, K., Baharin, N.S.K., (...), Yuzir, M.A.M. , Murakami, Y., Hara, H.
91	Pharmaceutical compounds in anaerobic digestion: A review on the removals and effect to the process performance	Journal of Environmental Chemical Engineering	ISSN: 2213-2929	Vol 9	Issue-5	-	2021	7.7	Web of Science (Review)	Environmental Engineering	Q1	Azizan, N.A.Z., Yuzir, A. , Abdullah, N.
92	Synthesis and characterization of Cu(OH)2-NWs-PVA-AC Nano-composite and its use as an efficient adsorbent for removal of methylene blue	Scientific Reports	ISSN 2045-2322 (online)	Vol 11	Issue-1	-	2021	4.6	Web of Science	Multidisciplinary	Q2	Lakkaboyana, S.K., Soontarapa, K., Asmel, N.K., (...), Yuzir, A.

												Zuhairi, W.Z.W.Y.
93	Indonesian Kaolin supported nZVI (IK-nZVI) used for the an efficient removal of Pb(II) from aqueous solutions: Kinetics, thermodynamics and mechanism	Journal of Environmental Chemical Engineering	ISSN: 2213-2929	Vol 9	Issue-6	-	2021	7.7	Web of Science	Process Chemistry and Technology	Q1	Lakkaboyana , S.K., Khantong, S., Asmel, N.K., (...), Yuzir, A. , Wan Yaacob, W.Z.
94	Flash flood susceptibility mapping in urban area using genetic algorithm and ensemble method	Geocarto International	ISSN 10106 049	Vol 37	Issue-25	10199-10228	2022	-	Web of Science	Geography, Planning and Development	Q2	Saleh, A., Yuzir, A. , Sabtu, N., (...), Bunmi, M.R., Pham, Q.B.
95	Flash Flood Susceptibility Mapping of Sungai Pinang Catchment using Frequency Ratio [Pemetaan Kerentanan Banjir Kilat Tadahan Sungai Pinang menggunakan Nisbah Kekerapan]	Sains Malaysiana	ISSN 01266 039	Vol 5	Issue-1	51-65	2022	-	Web of Science	Multidisciplinary	Q4	Saleh, A., Yuzir, A. , Sabtu, N.
96	Isolation and characterization of Lignin-derived monomer degraders under acidic conditions from tropical peatland	Journal of General and Applied Microbiology	ISSN 00221 260	Vol 68	Issue-3	117-124	2022	-	Publication in Scopus	General Medicine	-	Kamardan, M.I.F., Marsid, E.A.B., Akhir, F.N.M., (...), Yuzir, M.A.M. , Othman, N., Hara, H.
97	Discovering future research trends of aerobic granular sludge using bibliometric approach	Journal of Environmental Management	ISSN: 1095-8630	Vol 303	-	-	2022	8.7	Web of Science	Environmental Science	Q1	Purba, L.D.A., Md Khudzari, J., Iwamoto, K., (...), Yuzir, A. , Shimizu, K., Hermana, J.
98	Recent Applications of the Electrocoagulation Process on Agro-Based Industrial Wastewater: A Review	Sustainability (Switzerland)	ISSN: 2071-1050	Vol 14	Issue-4	-	2022	4.0	Publication in Scopus	Environmental Science	-	Rakhmania, Kamyab, H., Yuzir, M.A. , (...), Riyadi,

												F.A., Marzouki, R.
99	Removals of atenolol, gliclazide and prazosin using sequencing batch reactor	Materials Today: Proceedings	ISSN: 2214-7853	Vol 65	Part 7	3007-3014	2022	-	Elsevier, Science Direct	General Materials Science	-	Mat Zaini, Y.M., Dina Amalia Purba, L., Abdullah, N., (...), Yuzir, A. , Iwamoto, K., Mohamad, S.E.
100	Alginate-like exopolysaccharides in aerobic granular sludge: A review	Materials Today: Proceedings	ISSN: 2214-7853	Vol 65	Part 7	3046-3053	2022	-	Elsevier, Science Direct	General Materials Science	-	Zahra, S.A., Abdullah, N., Iwamoto, K., Yuzir, A. , Mohamad, S.E.
101	Review of the application of gasification and combustion technology and waste-to-energy technologies in sewage sludge treatment	Fuel	ISSN: 0016-2361	Vol 316	-	-	2022	7.4	Web of Science (Review)	General Chemical Engineering	Q1	Quan, L.M., Kamyab, H., Yuzir, A. , (...), Balasubramanian, B., Kirpichnikova, I.
102	Design optimisation of C-shaped optical fibre sensor	Optical and Quantum Electronics	ISSN 0306-8919	Vol 54	Issue-7	-	2022	3.0	Web of Science	Atomic and Molecular Physics, and Optics	Q2	Razali, N.M., Ambran, S., Holmes, C., (...), Yuzir, A. , Sapngi, H.H.J.
103	Enhanced cultivation and lipid production of isolated microalgae strains using municipal wastewater	Environmental Technology and Innovation	Online ISSN: 2352-1864	Vol 27	-	-	2022	7.1	Web of Science	General Environmental Science	Q1	Purba, L.D.A., Othman, F.S., Yuzir, A. , (...), Shimizu, K., Hermana, J.
104	Isolation and characterization of acid-tolerant Stichococcus-like Microalga (<i>Tetrastichococcus</i> sp. P1) from a tropical peatland in Malaysia	Journal of Applied Phycology	ISSN 0921-8971	Vol 34	Issue-4	1881-1892	2022	3.3	Publication in Scopus	Aquatic Science	-	Sahabudin, E., Lee, J., Asada, R., (...), Yuzir, M.A. , Suzuki, I., Hara, H.

105	The effects of caffeine, gliclazide, and prazosin on the performance and microbial diversity in an up-flow anaerobic sludge blanket (UASB) reactor	Biomass and Bioenergy	Online ISSN: 1873-2909	Vol 163	-	-	2022	6.0	Web of Science	Renewable Energy, Sustainability and the Environment	Q2	Azizan, N.A.Z., Kamyab, H., Yuzir, A. , (...), Oryani, B., Rezania, S.
106	Production of Bio-Coke from spent mushroom substrate for a sustainable solid fuel	Biomass Conversion and Biorefinery	ISSN 2190-6815	Vol 12	Issue-9	4095-4104	2022	4.0	Publication in Scopus	Renewable Energy, Sustainability and the Environment	-	Kamal Baharin, N.S., Koesoemadinata, V.C., Nakamura, S., (...), Yuzir, M.A. , Ida, T., Hara, H.
107	The selectivity of electron acceptors for the removal of caffeine, gliclazide, and prazosin in an up-flow anaerobic sludge blanket (UASB) reactor	Chemosphere	ISSN 00456 535	Vol 303	-	-	2022	-	Web of Science	Environmental Engineering	Q1	Azizan, N.A.Z., Kamyab, H., Yuzir, A. , (...), Elboughdiri, N., Sohrabi, M.
108	Future trends and patterns in leachate biological treatment research from a bibliometric perspective	Journal of Environmental Management	ISSN: 1095-8630	Vol 318	-	-	2022	8.7	Web of Science (Review)	Environmental Engineering	Q1	Ilmasari, D., Sahabudin, E., Riyadi, F.A., Abdullah, N., Yuzir, A.
109	Simulation of sewage sludge air gasification and application of electricity and steam generation: Case study of Pantai 1 sewage treatment plant	Energy Conversion and Management	ISSN 01968 904	Vol 270	-	-	2022	-	Web of Science	Renewable Energy, Sustainability and the Environment	Q1	Quan, L.M., Yabar, H., IDAA, W., Yuzir, A.
110	The role of restaurant wastewater for producing bioenergy towards a circular bioeconomy: A review on composition, environmental impacts, and sustainable integrated management	Environmental Research	ISSN 00139 351	Vol 214	Part 2	-	2022	-	Web of Science	General Environmental Science	Q1	Ahmad, I., Abdullah, N., Koji, I., Yuzir, A. , (...), Cheah, W.Y., Khoo, K.S.
111	Electrochemical oxidation of palm oil mill effluent using platinum as anode:	Environmental Research	ISSN 00139 351	Vol 214	Part 3	-	2022	-	Web of Science	General Environmental Science	Q1	Rakhmania, Kamyab, H., Yuzir, M.A. , (...), Ghfar,

	Optimization using response surface methodology											A.A., Kirpichnikova, I.
112	A review of the biological treatment of leachate: Available technologies and future requirements for the circular economy implementation	Biochemical Engineering Journal	ISSN 13697 03X	Vol 187	-	-	2022	-	Web of Science (Review)	Environmental Engineering	Q2	Ilmasari, D., Kamyab, H., Yuzir, A. , (...), Kirpichnikova, I., Krishnan, S.
113	Synthesis of metal oxides/sulfides-based nanocomposites and their environmental applications: a review	Materials Today Sustainability	ISSN 25892 347	Vol 20	-	-	2022	-	Publication in Scopus	Renewable Energy, Sustainability and the Environment	-	Dharmalingam, P., Palani, G., Apsari, R., (...), Kumar, V., Ali, Y.
114	Storage and reactivation of aerobic granular sludge: A review	Fuel	ISSN: 0016-2361	Vol 330	-	-	2022	7.4	Web of Science (Review)	General Chemical Engineering	Q1	Tanavarotai, K., Kamyab, H., Nor Anuar, A., (...), Yuzir, A. , Ashokkumar, V., Rezanian, S.
115	Preparation and characterisation of porous activated carbon using potassium hydroxide chemical activation with ultrasonic association	Biomass Conversion and Biorefinery	ISSN 2190-6815	-	-	-	2023	4.0	Web of Science (Early access)	Renewable Energy, Sustainability and the Environment	Q2	Arumugham, T., Yuniarto, A., Abdullah, N., Yuzir, A. , (...), Rezanian, S., Hatta, M.N.M.
116	Impact of Earthquake on River Water Quality Parameters	Chemical Engineering Transactions	ISSN 2283-9216	Vol 106	-	1171-1176	2023	-	Publication in Scopus	General Chemical Engineering	-	Kong, L., Anuar, A.N., Yuzir, A.M. , (...), Said, N.F., Asanuma, J.
117	Identification of Facultative Anaerobic Bacteria for Low-Cost Nutrient Removal in Treating Domestic Wastewater	Chemical Engineering Transactions	ISSN 2283-9216	Vol 106	-	1201-1206	2023	-	Publication in Scopus	General Chemical Engineering	-	Aris, A.M., Yuzir, A.M. , Anuar, A.N., Hara, H.
118	The Granular Sludge Properties and Performance Evaluation of Upflow	Chemical Engineering Transactions	ISSN 2283-9216	Vol 106	-	1189-1194	2023	-	Publication in Scopus	General Chemical Engineering	-	Zainudin, S.F., Anuar, A.N., Yuzir,

	Anaerobic Sludge Blanket Reactor as a Pre-Treatment for Domestic Wastewater											A.M. , (...), Aris, A.M., Khor, B.C.
119	The storage of dried aerobic granular sludges under ambient condition	Journal of Cleaner Production	Online ISSN: 1879-1786	Vol 383	-	-	2023	11.1	Web of Science	General Environmental Science	Q1	Tanavarotai, K., Anuar, A.N., Yuzir, A. , (...), Lei, Z., Yuniarto, A.
120	Aerobic granular sludge development using diatomite for low-strength wastewater treatment	Environmental Monitoring and Assessment	ISSN 0167-6369	Vol 195	Issue-3	-	2023	3.0	Publication in Scopus	General Environmental Science	-	Basri, H.F., Anuar, A.N., Halim, M.H.A., Yuzir, A.M. , (...), Omoregie, A.I., Najib, M.Z.M.
121	Algal-bacterial aerobic granular sludge for real municipal wastewater treatment: Performance, microbial community change and feasibility of lipid recovery	Journal of Environmental Management	ISSN: 1095-8630	Vol 303	-	-	2023	8.7	Web of Science	Environmental Engineering	Q1	Purba, L.D.A., Zahra, S.A., Yuzir, A. , (...), Lei, Z., Hermana, J.
122	Potential of microalgae Bio-Coke as a sustainable solid fuel alternative to coal coke	Journal of Material Cycles and Waste Management	ISSN 1438-4957	Vol 25	Issue-3	1699-1709	2023	3.1	Publication in Scopus	Waste Management and Disposal	-	Koesoemadinata, V.C., Nakamura, S., Kamal Baharin, N.S., Yuzir, A.M. , (...), Othman, N., Hara, H.
123	Application of Box-Behnken design to mineralization and color removal of palm oil mill effluent by electrocoagulation process	Environmental Science and Pollution Research	ISSN 1614-7499	Vol 30	Issue-28	71741-71753	2023	5.8	Publication in Scopus	Environmental Chemistry	-	Rakhmania, Kamyab, H., Yuzir, M.A. , (...), Purba, L.D.A., Riyadi, F.A.
124	Micro and macro analysis of restaurant wastewater containing fat, oil, grease (FOG): An approach based on prevention, control, and sustainable management	Chemosphere	Online ISSN: 1879-1298	Vol 325	-	-	2023	8.8	Web of Science	Environmental Engineering	Q1	Ahmad, I., Abdullah, N., Koji, I., Yuzir, A. , (...), Show, P.L., Khoo, K.S.

125	Characteristics of algal-bacterial aerobic granular sludge treating real wastewater: Effects of algal inoculation and alginate-like exopolymers recovery	Chemosphere	Online ISSN: 1879-1298	Vol 329	-	-	2023	8.8	Web of Science	Environmental Engineering	Q1	Zahra, S.A., Purba, L.D.A., Abdullah, N., Yuzir, A. , (...), Lei, Z., Hermana, J.
126	Microalgal-bacterial aerobic granular sludge for old leachate treatment: Development, performance, and lipid production	Journal of Cleaner Production	Online ISSN: 1879-1786	Vol 417	-	-	2023	11.1	Web of Science	General Environmental Science	Q1	Ilmasari, D., Yuniarto, A., Khen, C., (...), Lei, Z., Yuzir, A.
129	Commercialization potential of agro-based polyhydroxyalkanoates biorefinery: A technical perspective on advances and critical barriers	International Journal Of Biological Macromolecules	Online ISSN: 1879-0003	Vol 234			2023	8.2	Web of Science (Review) (Early access)	Biochemistry & Molecular Biology	Q1	Kumar, V; Lakkaboyana, SK; (...); Yuzir, A
128	A nucleic acid-based surface-enhanced Raman scattering of gold nanorods in N-gene integrated principal component analysis for COVID-19 detection	Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy	Online ISSN: 1873-3557	Vol 311	-	-	2024	4.4	Elsevier, Science Direct	Analytical Chemistry	-	Mustapa, M.A., Yuzir, A. , Latif, A.A., Ambran, S., Abdullah, N.

➤ PROCEEDINGS / CONFERENCE

- 1) **Yuzir, A.** and Sallis, P. J. (2007). Performance of AMBr in the treatment of a synthetic (RS)-MCPD Wastewater. In: 8th UK's Young Water Professionals Conference, 18-20th April, Univ. of Surrey, UK.
- 2) **Yuzir, A.** and Sallis, P. J. (2007). Treatment of synthetic wastewater containing (RS)-MCPD using Anaerobic Membrane Bioreactor (AMBr). In: 2nd IWA National Young Water Professionals Conference, 4-5th June, Berlin, Germany.
- 3) **Yuzir, A.** and Sallis, P. J. (2007). The effect of elevated (RS)-MCPD concentrations on the performance of an anaerobic membrane bioreactor (AMBr). In 11th World Congress on Anaerobic Digestion, 23-27th September 2007, Brisbane, Australia.
- 4) **Yuzir, A.**, Chelliapan, S. and Abdullah, N. (2008). Anaerobic Treatment of Sulphate Enriched Wastewater. In: Japan Society for the Promotion of Science (JSPS)-VCC Group 5, Seminar on Water & Wastewater Management and Technologies 2008, 17-18th July 2008, Universiti Malaysia Sabah, Malaysia.
- 5) Chelliapan, S., **Yuzir, A.** and Abdullah, N. (2008). Antibiotics in the Environment. In Third Regional Symposium on Environment and Natural Resources "Conservation for A Green Future" 5-6th August 2008 Prince Hotel & Residence, Kuala Lumpur.
- 6) **Yuzir, A.**, Chelliapan, S. and Abdullah, N. (2008). The Limit of Organic Loading Rate in the Treatment of Synthetic Wastewater using Anaerobic Membrane Bioreactor (AMBr). In International Conference on Sustainable Environmental Technology and Sanitation for Tropical Region 2008, 17-18th November 2008, Institute Technology Sepuluh Nopember, Surabaya, Indonesia.
- 7) Chelliapan, S., **Yuzir, A.** and Abdullah, N. (2008). Anaerobic Treatment of Sulphate Containing Wastewater. Proceedings of the International Conference on Environmental Management and Technologies (ICEEMAT'08), 10th – 12th December 2008, PWTC, Kuala Lumpur.
- 8) Chelliapan, S., **Yuzir, A.** and Abdullah, N. (2008). Application of Anaerobic Biotechnology for Pharmaceutical Wastewater Treatment. In International Conference on Environment (ICENV) 2008, 15-17th December 2008, Penang, Malaysia.
- 9) **Yuzir, A.**, Chelliapan, S. and Sallis, P.J. (2008). Performance of Anaerobic Membrane Bioreactor (AMBr) in the Treatment of Elevated Concentration of Synthetic (RS)-MCPD Wastewater. In International Conference on Environment (ICENV) 2008, 15-17th December 2008, Penang, Malaysia.
- 10) Abdullah, N., **Yuzir, A.** and Chelliapan, S. (2009). Effect of HRT on (RS)-MCPD Degradation using Anaerobic Membrane Bioreactor (AMBr). Proceedings of the 3rd International Conference International Water Association (IWA)-Asia Pacific Regional Group (ASPIRE), 18th – 22nd October 2009, Taipei, Taiwan.
- 11) Chelliapan, S., Mahat, S. B. and **Yuzir, A.** (2009). Biotreatment of Recalcitrant Wastewater by Anaerobic Process. In Proceedings of the 2nd International Conference on Engineering Technology, 8th – 11th December 2009, The Legend Hotel, Kuala Lumpur.
- 12) Siti Baizura, M., Chelliapan, S. and **Yuzir, A.** (2009). Development of Anaerobic Stage Reactor System for the Treatment of Highly Polluted Wastewater – Start-up Experiences. In International Conference on Communication and Environment: Transformation for a Sustainable Tomorrow, 9 – 11th December 2009, Park Royal Hotel, Penang.
- 13) Abdullah, N., **Yuzir, A.** and Chelliapan, S. (2009). The Effects of Paracetamol in Brewery Wastewater by using Anaerobic Pack Bed Bioreactor. In National Postgraduate Conference, Universiti Teknologi Petronas, Perak.
- 14) Chelliapan, S., Sallis, P. J., **Yuzir, A.** and Abdullah, N. (2010). Biodegradation of Macrolide Antibiotic Tylosin in an Anaerobic Reactor. 1st International Water Association (IWA) Malaysia Young Water Professionals Conference, 2-4 March 2010, Best Western Seri Pacific, Kuala Lumpur.

- 15) Yusop, Z., **Yuzir, M. A. M.**, Azman, S. (2010). Water Sustainability. Proceedings of Postgraduate Seminar UTM-UNESCO-IHE. ISBN No. 978-983-9805-82-6
- 16) Salim, M. R., Damayanti, A. Salmiati, **Yuzir M. A. M.** (2012). The effects of flux variation and enhancing chemicals on biofouling of MBR treating palm oil mill effluent. In the 5th International Conference on Challenges in Environmental Science & Engineering (CESE), 9 – 13th Sept 2012, Melbourne, Australia.
- 17) Salim, M. R., Salmiati, **Yuzir, M. A. M.**, Hashim, N., Hashim, H. (2012). Renewable energy: Bioconversion of organic wastes using anaerobic co-digestion for biofuel production. In the 5th International Conference on Challenges in Environmental Science & Engineering (CESE), 9 – 13th Sept 2012, Melbourne, Australia.
- 18) Saidu, M., Salim, M. R., **Yuzir, M. A. M.** (2012). Influence of Palm Oil Mill Effluent as an Inoculum on the Anaerobic Digestion of Cattle Manure for Biogas Production. In the 5th International Conference on Challenges in Environmental Science & Engineering (CESE), 9 – 13th Sept 2012, Melbourne, Australia.
- 19) Abdullah, N, Yahya, A. and **Yuzir, A.** (2012). Fractal Dimension of Aerobic Granular Sludge. In International Conference on Environment (ICENV), 11-13th December 2012, Penang, Malaysia.
- 20) **Yuzir, A.**, Abdullah, N., Sallis, P. J. (2013) Treatment of low-strength wastewater contaminated with mecoprop using anaerobic membrane bioreactor (AMBr). In the 5th IWA-ASPIRE Conference & Exhibition, 8 – 12th Sept 2013, Daejeon, Korea.
- 21) Abdullah, N., **Yuzir, A.**, Yahya, A., Ujang, Z. (2013). The effects of volumetric organic loading on aerobic granulation. In the 5th IWA-ASPIRE Conference & Exhibition, 8 – 12th Sept 2013, Daejeon, Korea.
- 22) Saidu, M., **Yuzir, A.**, Salim, M. R., Salmiati, Azman, S., Abdullah, N. (2013). Biogas production from anaerobic of palm oil mesocarp fiber with cattle manure. In the 6th International Conference on Challenges in Environmental Science & Engineering (CESE), 29 – 30th Nov 2013, Daegu, Korea.
- 23) Abdullah, N., **Yuzir, A.**, Yahya, A., Ujang, Z., Curtis, C. (2013). Microbial population dynamics in aerobic granulation environments. In the 6th International Conference on Challenges in Environmental Science & Engineering (CESE), 29 – 30th Nov 2013, Daegu, Korea.
- 24) Lavania-Baloo, Shamila Azman, Mohd Ismid Bin Mohd Said, **Muhamad Ali Muhammad Yuzir.** (2015). *Ulva lactuca* for nutrients biofiltration in a recirculating shrimp effluent treatment system. THE 2nd IWA Malaysia Young Water Professionals Conference (YWP15), 17-20th March 2015.
- 25) Yaacob, S. S., Sabri, A., & **Yuzir, A.** (2015). Sulphate Reduction Control to Enhance Methane Composition in Anaerobic Digester. In Applied Mechanics and Materials (Vol. 735, pp. 205-209). Trans Tech Publications Ltd.
- 26) Mohd Sabri, A. Z., Samsudin, H., Yaacob, S. S., & **Muhammad Yuzir, M. A.** (2015). Production Of Biogas From Anaerobic Co-Digestion Of Oil Palm Mesocarp Fibre And Cattle Manure: In Batch. In Applied Mechanics and Materials (Vol. 735, pp. 200-204). Trans Tech Publications Ltd.
- 27) Ahmad, N. A., **Yuzir, M. A.**, Yong, E. L., Abdullah, N., & Salim, M. R. (2015). Removal of bisphenol a (BPA) in surface water by ozone oxidation process. In Applied Mechanics and Materials (Vol. 735, pp. 210-214). Trans Tech Publications Ltd.
- 28) Salim, H. K., Padfield, R., **Yuzir, A.**, & Mohamad, S. E. (2017). Towards Sustainable Food Production: Exploring the Opportunities and Challenges in Indonesia. 2nd Asia International Conference, UTM KL.
- 29) Anuar, U. H. M., Alias, N. E., Nassir, K. A. M., and **Yuzir, A.** (2019). Modelling the Impact of Climate Change on Flood: Case Study at Upper Sungai Segget Catchment. 4th International Conference on Water Resources (ICWR-2018).
- 30) Purba, L. D. A., Abdullah, N., **Yuzir, M. A. M.**, Zamyadi, A. (2019). Aerobic granulation technology for domestic wastewater treatment: A Malaysian case study. In the International Workshop of Environmental Engineering (IWEE), 25-28th June 2019, Okinawa, Japan.

- 31) Arjuna, N., Adnan, A., Ramli, M. Z., Aizon, N. H., Alel, N., **Yuzir, M. A. M.**, & Bakar, N. A. (2020). Seismic fragility curves of steel structure industrial building using IDA method. The 7th Aun/Seed-Net Regional Conference on Natural Disaster (RCND), 25-26 November 2019, Kuala Lumpur, Malaysia.
- 32) Aizon, N. H., Adnan, A., Ramli, M. Z., Arjuna, N., Alel, A., & **Yuzir, M. A. M.** (2020). Seismic performance of long cable-stayed bridge with various time history loading using finite element method. The 7th Aun/Seed-Net Regional Conference on Natural Disaster (RCND), 25-26 November 2019, Kuala Lumpur, Malaysia.
- 33) Zulkarnain, S. H., **Yuzir, M. A.**, Razali, M. N., & Tarmidi, Z. (2020). Structural, Locational and Environmental Attributes effects the Residential Property Value in Flood Risk Area. The 7th Aun/Seed-Net Regional Conference on Natural Disaster (RCND), 25-26 November 2019, Kuala Lumpur, Malaysia.
- 34) Hassim, M., **Yuzir, A.**, Razali, M.N., Ros, F.C., Chow, M.F., & Othman, F. (2020). Comparison of Rainfall Interpolation Methods in Langkat River Basin. The 7th Aun/Seed-Net Regional Conference on Natural Disaster (RCND), 25-26 November 2019, Kuala Lumpur, Malaysia.
- 35) Purba, L.D.A., Abdullah, N., **Yuzir, A.**, & Halim, M.H.A. (2020). Characteristics and performance of aerobic granulation seeded with anaerobic bioflocs for treatment of domestic wastewater. The 7th Aun/Seed-Net Regional Conference on Natural Disaster (RCND), 25-26 November 2019, Kuala Lumpur, Malaysia.
- 36) Basri, H.F., Anuar, A.N., **Yuzir, A.**, & Halim, M.H.A. (2020). Diatomite carrier for rapid formation of Aerobic Granular Sludge. The 7th Aun/Seed-Net Regional Conference on Natural Disaster (RCND), 25-26 November 2019, Kuala Lumpur, Malaysia.
- 37) Arumugham, T., Husaini, N.A., **Yuzir, A.**, Mohamad, S.E., Iwamoto, K., & Abdullah, N. (2020). Anammox reactor treating low strength domestic wastewater: A review. The 7th Aun/Seed-Net Regional Conference on Natural Disaster (RCND), 25-26 November 2019, Kuala Lumpur, Malaysia.
- 38) Saleh, A., **Yuzir, A.**, & Abustan, I. (2020). Flood mapping using Sentinel-1 SAR Imagery: Case study of the November 2017 flood in Penang. The 7th Aun/Seed-Net Regional Conference on Natural Disaster (RCND), 25-26 November 2019, Kuala Lumpur, Malaysia.
- 39) Mussa, Z.H., Al-Qaim, F.F., **Yuzir, A.**, & Shameli, K. (2020). Electrochemical removal of metoprolol using graphite-polyvinyl chloride composite as anode. The 7th Aun/Seed-Net Regional Conference on Natural Disaster (RCND), 25-26 November 2019, Kuala Lumpur, Malaysia.
- 40) Mustapa, M.A., Ambran, S., & **Yuzir, A.** (2020). Application of carbon nanotubes and graphene to develop the heavy metal electrochemical sensor. The 7th Aun/Seed-Net Regional Conference on Natural Disaster (RCND), 25-26 November 2019, Kuala Lumpur, Malaysia.
- 41) Mat Zaini, Y.M., Abdullah, N., & **Yuzir, A.** (2020). Effects of pharmaceutical load on the effluent quality using sequencing batch reactor. The 7th Aun/Seed-Net Regional Conference on Natural Disaster (RCND), 25-26 November 2019, Kuala Lumpur, Malaysia.
- 42) Heng, B., Oeurng, C., Try, S., & **Yuzir, A.** (2020). Flow regime alteration analysis under climate change in Tonle Sap Subbasin. The 7th Aun/Seed-Net Regional Conference on Natural Disaster (RCND), 25-26 November 2019, Kuala Lumpur, Malaysia.
- 43) Azizan, N.A.Z., **Yuzir, A.**, Al-Qaim, F.F., & Abdullah, N. (2020). Anaerobic Treatment Performance in Presence of Pharmaceutically Active Compounds. The 7th Aun/Seed-Net Regional Conference on Natural Disaster (RCND), 25-26 November 2019, Kuala Lumpur, Malaysia.
- 44) Saidu, M., **Yuzir, A.**, Salim, M.R., Richard, A., & Afiz, B. (2020). Effect of operating parameter on the anaerobic digestion oil palm mesocarp fibre with cattle manure for biogas production. The 2nd International Conference on Civil & Environmental Engineering 20th - 21st November 2019, Langkawi, Kedah, Malaysia.

- 45) Razali, N.M., Ambran, S., Zuikafly, S.N.F., **Yuzir, M.A.M.**, & Sapingi, H.H.J. (2021). Design and Simulation of C-Shaped Optical Fiber Sensor. The 2021 International Conference on Numerical Simulation of Optoelectronic Devices, NUSOD 2021, 13th – 17th September 2021.
- 46) Khen, C., Ilmasari, D., & **Yuzir, A.** (2022). Development of Microalgae-Bacteria Aerobic Granular Sludge for Landfill Leachate Treatment. The 9th Aun/Seed-Net Regional Conference on Natural Disaster (RCND), 15-16 December 2021, Virtual (Online).
- 47) Ilmasari, D., & **Yuzir, A.** (2022). The applications of aerobic granular sludge for leachate treatment: A review. The 9th Aun/Seed-Net Regional Conference on Natural Disaster (RCND), 15-16 December 2021, Virtual (Online).
- 48) Al-Dailami, A., Ahmad, I., Abdullah, N., Koji, I., & **Yuzir, A.** (2022). Feasibility and viability of procuring biohydrogen from microalgae: An emerging and sustainable energy resource technology. The 9th Conference on Emerging Energy and Process Technology 2021, CONCEPT 2021, 24-25 November 2021, Johor Bahru, Malaysia.

➤ THESIS

- 1) **M.A.M Yuzir**, Effect of Redox Conditions in the Degradation of (RS)-MCPP During Biological Treatment of Synthetic Wastewater in an Anaerobic Membrane Bioreactor (AMBr), Ph.D. Thesis University of Newcastle upon Tyne, UK (2007).
- 2) **M.A.M Yuzir**, Limit of Organic Loading Rate in the Treatment of Brewery Wastewater in Anaerobic Membrane Bioreactor (AMBr) M.Sc. Thesis University of Newcastle upon Tyne, UK (2003).

➤ BOOK

- 1) **Yuzir, M.A.M.** Biological Treatment of Herbicide Wastewater in an Anaerobic Membrane Bioreactor (*in progress*)

➤ BOOK CHAPTER

- 1) Chelliapan, S., Sallis, P. J., **Yuzir A.** Treatment of Pharmaceutical Wastewater Containing Macrolide Antibiotic Tylosin in a Sequential Anaerobic-Aerobic Reactor System. In Michael Theophanides and Theophile Theophanides (eds.) Environmental Engineering and Sustainability. 2009. Chapter 15 pp 213. ISBN No. 978-960-6672-97-2.
- 2) Aris, A., **Yuzir, M. A. M.**, Azman, S. Advances in Water and Wastewater Treatment Technologies, 2008. ISBN No. 978-983-52-0580-4, UTM.
- 3) Ahmad, I., Abdullah, N., Chelliapan, S., **Yuzir, A.**, Koji, I., Al-Dailami, A., & Arumugham, T. 2020. Effectiveness of Anaerobic Technologies in the Treatment of Landfill Leachate. In Solid Waste Management. IntechOpen.
- 4) Arumugham, T., Ahmad, I., Abdullah, N., **Yuzir, A.**, Koji, I., & Mohamad, S.E. 2022. Performance of anammox in industrial wastewater treatment: Recent advances and future prospects. In Microbial Technologies for Wastewater Recycling and Management: Recent Trends, Challenges, and Perspectives. Chapter 5 pp 67 to 79. ISBN No 978-100077531-0, 978-103213758-2.

- 5) Ahmad, I., Jasni, A.B., Abdullah, N., Krishnan, S., Koji, I., Chelliapan, S., **Yuzir, A.**, & Nasrullah, M. 2022. Landfill management and efficacy of anaerobic reactors in the treatment of landfill leachate. In Techno-economics and Life Cycle Assessment of Bioreactors: Post-COVID-19 Waste Management Approach. Chapter 6 pp 69-92. ISBN No 978-032389848-5, 978-032388583-6.
- 6) Palani, G., Lakkaboyana, S.K., Apsari, R., Venkateswarlu, K., Kumar, V., Prasanna Lingamdinne, L., Koduru, J. R., **Yuzir, A.**, Kannan, K., & Karri, R.R. 2023. Lanthanum-based materials for adsorptive removal of phosphate. In Hybrid Nanomaterials for Sustainable Applications: Case Studies and Applications. Chapter 13 pp 305. ISBN No 978-032398371-6, 978-032398579-6.
- 7) Zahra, S.A., Ahmad, I., Abdullah, N., Iwamoto, K., & **Yuzir, A.** 2023. Microalgae-based bioremediation of pharmaceuticals wastewater. In The Treatment of Pharmaceutical Wastewater: Innovative Technologies and the Adaptation of Treatment Systems. Chapter 9 pp 277-309. ISBN No 978-032399160-5.

➤ EXPERT REPORT

- 1) **Yuzir, A.** and Muda, K. Characterization of Anaerobic Granular Sludge in Bioconversion of Leachate. Final report submitted to Ministry of Higher Education, 2012.
- 2) **Yuzir, A.** Anaerobic Digestibility of Microalgae as a Carbon Source Using Anaerobic Membrane Bioreactor. Final report submitted to Ministry of Higher Education, 2012.
- 3) Yusop, **Yuzir, A** et al., Study on the Current Status and Needs Assessment of Water Resources Research in Malaysia. Inception Report submitted to Akademi Sains Malaysia, 2012.
- 4) **Yuzir, A.** Anaerobic Treatability of Recalcitrant Wastewater. Final report submitted to Research Management Centre, UTM, 2009

LIST OF PUBLICATION	TOTAL
Journal (International)	128
Conference (International)	48
Book	1
Book Chapter	7
Article	1

PLENARY/CHAIRPERSON/ORAL POSTER PRESENTER/KEYNOTE ADDRESS / INVITED GUEST SPEAKER

NO	ROLE	TITLE OF PROGRAMME	DATE	LOCATION
1	Keynote Speaker	The 12 th AUN/SEED-Net Regional Conference on Geology and Geo-resource Engineering & The 8 th Regional Conference on Natural Disaster	1-3 Dec 2020	Yangon University Research Center, Yangon, Myanmar.

2	Keynote Speaker	National seminar titled "The Sustainability of Clean Water in Remote Area"	04 Aug 2020	Fakultas Teknik, Universitas Muhammadiyah Riau (Webinar Nasional)
3	Chairperson	7 th AUN/SEED-NET Regional Conference on Natural Disaster (RCND) 2019	25 -26 Nov 2019	Zenith Hotel Putrajaya, Malaysia.
4	Presenter	ID Flood Model of Urban Drainage System Using XP-Storm Water Management Model (XP-SWMM) Software	25-26 Nov 2019	Zenith Hotel Kuala Lumpur, Malaysia.
5	Guest Lecturer	Erasmus Program of European Union	14-18 Oct 2019	Pompeu Fabra University (UPF Barcelona)
6	Guest Lecturer	Collaborative Education Program (CEP-SEEN)	20 Sept 2019	Universitas Trisakti, Indonesia
7	Plenary Lecture	"Effect of Mecoprop (RS)-MCP on Biological Treatment of Synthetic Wastewater in an Anaerobic Membrane Bioreactor" Lectures given at The International Workshop on Environmental Engineering 2019 (IWEE2019)	25-28 June 2019	Okinawa, Japan.
8	Visiting Lecture	Department of Environmental Engineering, Faculty of Civil, Environmental and Geo Engineering	April – May 2019	Institut Teknologi Sepuluh Nopember, Indonesia.
9	Invited Speaker	Faculty of Civil, Environmental and Geo Engineering,	28 Mar – 28 June 2019	Institut Teknologi Sepuluh Nopember (ITS), Surabaya Indonesia
10	Presenter	4 th International Conferences on Water Resources (ICWR2018) Paper Id-116	27-28 Nov 2018	Bayview Hotel, Langkawi
11	Chairperson	In the JASTIP Symposium 2018	16 – 19 Oct 2018	Sama-Sama KLIA Hotel Kuala Lumpur, Malaysia.

12	Invited speaker	“Beyond Borders for SDGs Implementation” in the Tsukuba Global Science Week (TGSW) 2018	20-22 Sept 2018	Tsukuba International Congress Center in Tsukuba Science City, Japan.
13	Invited speaker	IEM Malaysia for Compilation of Historical Data & Summary for The Disasters, Floods etc From Sin Chew Jit Poh Newspaper	May 2018	Kuala Lumpur
14	Guest speaker	Joint Master’s Degree Program in Sustainability and Environmental Sciences (JMSES) Seminar	27-28 March 2018	University of Tsukuba, Japan
15	Chairperson	UNESCO-JASTIP Joint 4 th Symposium on JASTIP Disaster Prevention International Cooperation Research (JASTIP-WP4 Symposium)	15-18 Feb 2018	Manila, Philippines
16	Presenter	5 th Regional Conference on Natural Disaster 2017	20 - 21 Sept 2017	Bangkok, Thailand
17	Guest speaker	Department of Irrigation & Drainage Malaysia Technical Talk	Jan 2017	Kuala Lumpur
18	Invited speaker	Integrated Study on Disaster Management in Malaysia” in the Department of Irrigation & Drainage Malaysia Technical Talk by UNESCO-IHP, Malaysia	25 Jan 2017	Kuala Lumpur
19	Chair	4 th AUNSEED-Net RCND Conference	Sept 2016	Kuala Lumpur
20	Presenter	International Workshop on Disaster Prevention Training 2016	17-18 Aug 2016	Kuala Lumpur
21	Distinguished Speaker	IWA-CEGIS Training Workshop on Water, Climate and Cities	July 2016	UTM Kuala Lumpur
22	Presenter	Persidangan Kajian Bencana Banjir 2014	4-6 Apr 2016	UTM Kuala Lumpur
23	Speaker	Malaysian Tropical Educational Summer School 2016	18 Jan – 25 Feb 2016	UTM Johor Bahru

24	Chairperson	4 th AUN/SEED-NET Regional Conference on Natural Disaster (RCND) 2016	6 – 7 Sept 2016	Seri Pacific Hotel Kuala Lumpur, Malaysia
25	Speaker	Malaysian Tropical Educational Experience Summer School 2016: Managing Water Environment in Tropical Countries	18 Jan-05 Feb 2016	UTM Johor
26	Presenter	Water and Development Congress & Exhibition	18-22 Oct 2015	Amman, Jordan
27	Chair	3 rd IWA-UTM International Publication Workshop 2015	12-14 Mar 2015	Kuala Lumpur
28	Presenter	Workshop on The Research and Education Program of Disaster Management	03-06 Aug 2015	Kuala Lumpur
29	Presenter	Water & Environment Technology Conference (WET 2014)	27-30 Apr 2014	Tokyo, Japan
30	Invited Speaker	Symposium on Algae Research	17 – 18 Dec 2013	UTM Johor
31	Presenter	6 th International Conference Challenges in Environmental Science & Engineering, CESE-2013	29 Oct - 02 Nov 2013	Daegu, Korea
32	Visiting Scientist & Poster Presenter	JSPS Asia Core Program -3rd Comprehensive Symposium	27-30 Oct 2013	Kyoto, Japan
33	Chair Session	5 th IWA-ASPIRE Conference & Exhibition	8 – 12 Sept 2013	Daejeon, Korea.
34	Speaker/Chair Session	3 rd Annual World Congress of Agriculture (WCA-2013)	23-27 Sept 2013	Hangzhou, China.
35	Visiting Scientist	Memorandum of Understanding for Scientific Cooperation between JSPS (Japan Society for the Promotion of Science)	Sept 2013	UTM Johor

		and MOHE (Ministry of Higher Education in Malaysia)		
36	Invited speaker	Herbicides Degradation using an Anaerobic Membrane Bioreactor” in the BIT 1 st Annual World Congress of Advanced Materials 2012	6-8 June 2012	Beijing International Convention Center, Beijing, China.

PROFESSIONAL SERVICES

➤ CONSULTATION AND TRAINING

NO	ROLE	TITLE OF PROGRAMME	DATE	LOCATION	TOTAL INCOME GENERATED (RM)
1	Project Leader	Kajian Airbumi Dengan Menggunakan Survei Geofizik	25-28 June 2020	Sek. Men. Scientex, Pasir Gudang Johor	7,000
2	Project Leader	Kajian Menentukan Potensi Airbumi Bagi Projek CSR Pembinaan Telaga Tiub Bagi Bekalan Air Domestik	11-12 Mar 2019	Kg Orang Asli Kampung Kangkar Senangar Johor	1,500
3	Project Leader	Kajian Menentukan Potensi Airbumi	22-23 Jan 2019	Bukit Selambau Kedah	2,000
4	Project Leader	Kajian Menentukan Rembusan Airbumi Dengan Menggunakan Survei Geofizik	5-6 Jan 2019	Semberong Johor	4,000
5	Project Leader	Compilation of Historical Data & Summary for The Disasters, Floods Etc From Sin Chew Jit Poh Newspaper-IEM Malaysia	May 2018	Petaling Jaya, Selangor	2,000
6	Project Member	Study on the Current Status and Needs Assessment of Water Resources Research in Malaysia	Nov 2012-Dec 2013	Akademi Sains Malaysia	73,500

➤ Community Project

NO	ROLE	NAME OF PROJECT	DATE	TOTAL VALUE OF PROJECT (RM)
1	Project Leader	NBOS4 KPT Grant - Water Supply for Unprivileged Community	June 2016- May 2017	100,000

➤ **Community and University Services**

NO	ROLE	TITLE OF PROGRAMME	DATE	LEVEL	LOCATION
1	Leader	Jawatankuasa Penyediaan Blueprint Teknologi Hijau Negeri Selangor 2020-2030	11-30 Apr 2019	National	Selangor

➤ **Endowment and Wakaf to University**

NO	NAME OF ENDOWMENT AND WAKAF	TOTAL CONTRIBUTION (RM)
1	Zakat UTM	700/month

➤ **Patent Granted and Filing**

NO	NAME OF PATENT	ROLE	STATUS OF PATENT
1	An Anaerobic Stage Reactor for Wastewater Application No: UI 2013700136 No. MY- 173952-A	Researcher	End: 22 Jan 2033
2	Production of Oyster Mushroom on Palm Oil Mesocarp Fibre for Renewable Energy.	Project Leader	Filing
3	System and Kit for Detection of Covid-19 or Analog Thereof	Project Leader	Malaysia Patent Application No. PI2022006022