

Curriculum Vitae



Staff Profile

Full Name	DR. MOHAMED ZUHAILI BIN MOHAMED NAJIB
Faculty	Engineering
School	Civil Engineering
Department	Water & Environmental Engineering
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Designation	DS51 – SENIOR LECTURER

Field of Expertise

Field Category (KPT)	ENGINEERING AND TECHNOLOGY
Field (KPT)	Environmental Engineering
Field of Specialization (KPT)	Environmental Engineering, Water & Wastewater Engineering

Academic Qualification

Year	Qualification	Institution
2017	Doctor of Philosophy (Civil Engineering)	Universiti Teknologi Malaysia
2010	Master of Engineering (Civil-Wastewater)	Universiti Teknologi Malaysia
2008	Bachelor of Engineering (Civil)	Universiti Teknologi Malaysia

Professional Appointments

Year	Vacancy	Institution
2018-Now	DS51 – Senior Lecturer	Universiti Teknologi Malaysia
2017-2018	DS45 – Lecturer	Universiti Tun Hussein Onn

Teaching Experiences

Year	Description	Level
2020	Introduction to Entrepreneurship, Session 20192020 Semester 2, Universiti Teknologi Malaysia	University
2020	Civil Engineering Laboratory, Session 20192020 Semester 2, Universiti Teknologi Malaysia	University
2020	Water Treatment, Session 20192020 Semester 2, Universiti Teknologi Malaysia	University
2020	Water Treatment, Session 20192020 Semester 1, Universiti Teknologi Malaysia	University
2020	Graduate Success Attributes, Session 20192020 Semester 1, Universiti Teknologi Malaysia	University
2019	Civil Engineering Laboratory, Session 20182019 Semester 2, Universiti Teknologi Malaysia	University
2019	Water Treatment, Session 20182019 Semester 2, Universiti Teknologi Malaysia	University
2019	Wastewater Engineering, Session 20182019 Semester 2, Universiti Teknologi Malaysia	University
2019	Water Treatment, Session 20182019 Semester 1, Universiti Teknologi Malaysia	University
2018	Wastewater Engineering, Session 20182019 Semester 1, Universiti Teknologi Malaysia	University
2018	Water Drainage and Plumbing System, Session 20172018 Semester 2, Universiti Tun Hussein Onn Malaysia	University
2018	Engineering Economy, Session 20172018 Semester 2, Universiti Tun Hussein Onn Malaysia	University
2018	Integrated Construction Project, Session 20172018 Semester 2, Universiti Tun Hussein Onn Malaysia	University
2017	Static, Session 20172018 Semester 1, Universiti Tun Hussein Onn Malaysia	University
2017	Heating, Ventilation and Air Conditioning (HVAC), Session 20172018 Semester 1, Universiti Tun Hussein Onn Malaysia	University

Publications

Year	Title & Authors	Journal/Book Chapter/Proceedings
2020	Assessment of Physical-Chemical Water Quality Characteristics and Heavy Metals Content of Lower Johor River, Malaysia Liang, Y. Q., Annammala, K. V., Martin, P., Yong, E. L., Mazilamani, L. S., and Najib, M.Z.M.	Journal of Environmental Treatment Techniques, 8(3), 961-966.
2019	An Investigation of Characteristics of Plant-Based Additive To Accelerate The Food Waste Decomposition Process Tuan Noor Hasanah Tuan Ismail, Chan Chee Ming, Alvin John Lim Meng Siang, Penial Ang Sonn Erm, Mohamed Zuhaili Mohamed Najib	Advanced Technology Centre: Research and Innovation Series 2
2019	Effectiveness of Macrocomposites In Treating Public Wet Market Wastewater in Pekan Pagoh, Johor Mohamed Zuhaili Mohamed Najib , Kogila Vani Annammala, Mohamad Darwish, Erwan Hafizi Kasiman, Muhamad Hanafi Samsuri, Mohd Arif Rosli and Zarizi Awang	International Conference on Environmental Sustainability and Resource Security (IC-ENSURES 2019)
2019	Assessment of Physical-Chemical Water Quality in The Environment: Current State, Understudied Area and The Way Forward: Case Study Of The Lower Johor Straits, Malaysia Y.Q. Liang, K.V. Annammala, P.Martin, E.L. Yong, L.S. Mazilamani, M.Z.M. Najib	International Conference on Environmental Sustainability and Resource Security (IC-ENSURES 2019)

2019	Impact of Non-Traditional Teaching and Learning Approach in Water Treatment Course Among Adult Learners	Proceeding Teaching and Learning Innovation Festival 2019
2019	Macrocomposite Technology: An Alternative Laundry Wastewater Treatment to Improve Water Quality Effluent Nur Atiqah Zulkefli, Mohamed Zuhaili Mohamed Najib , Mohamad S.J. Darwish, Erwan Hafizi Kasiman, Muhammad Noor Hazwan Jusoh, Ali Tighnavard Balasbaneh, Siti Rahmah Omar, Mohd Arif Rosli, Zarizi Awang, Norshuhaila Mohamed Sunar	4th Proceeding of Civil Engineering
2018	Carbon Dioxide Removal in Liquid and Gas using Biogranules Containing Photosynthetic Pigment in Palm Oil Mill Effluent Treatment Mohamed Zuhaili Mohamed Najib , Kamarul Aini Mohd Sari, Rahmat Muslim, Nurdalila Saji, Mariah Awang, Mohamad Ashraf Abd Rahman, Fatimah Mohamed Yusop and Mohamad Faizal Bin Tajul Baharuddin	Application in Environmental Engineering Technology (Series 1), ISBN 978-967-2183-21-1
2018	Application of Geophysics Technology in Defining the Environmental Impact at Coastal Area Mohamad Faizal Tajul Baharuddin, Mohd Idrus Mohd Masirin, Mohamed Zuhaili Mohamed Najib	Application in Environmental Engineering Technology (Series 1), ISBN 978-967-2183-21-1
2018	Building Condition Assessment of Residential College Block in UTHM Pagoh Campus Mohamad Ashraf Abd Rahman, Lee Yaw Wey, Mohamed Zuhaili Mohamed Najib	Building Science & Sustainability (Series 2), ISBN 978-967-2216-14-8
2017	Developed Microbial Granules Containing Photosynthetic Pigments for Carbon Dioxide Reduction in Palm Oil Mill Effluent M.Z. M. Najib , Salmiati, Z. Ujang, M.R. Salim and Z. Ibrahim	International Biodeterioration & Biodegradation, 116, 163-170. https://doi.org/10.1016/j.ibiod.2016.10.031
2016	Reduction and Biofixation of Carbon Dioxide in Palm Oil Mill Effluent Using Developed Microbial Granules Containing Photosynthetic Pigments M.Z. M. Najib , Salmiati, Z. Ujang, M.R. Salim, Z. Ibrahim and K. Muda	Bioresource Technology, 221, 157-164. https://doi.org/10.1016/j.biortech.2016.08.119
2015	Characteristics of Developed Granules Containing Phototrophic Aerobic Bacteria for Minimizing Carbon Dioxide Emission Salmiati, F.A. Dahalan, M.Z. M. Najib , M.R. Salim and Z. Ujang	International Biodeterioration & Biodegradation, 102, 15-23. https://doi.org/10.1016/j.ibiod.2015.04.010
2013	Morphological Characterization of Photosynthetic Microbial Granule from Palm Oil Mill Effluent M.Z. M. Najib , Z. Ujang, and Salmiati	The Malaysian Journal of Analytical Sciences, ISSN 1394-2506, 17(3), 445-453

Year	Thesis	University
2020	Effects of Hydraulic Retention Time (HRTs) on Water Quality Effluent Treatment Using Macrocomposites Technology at Flat Taman Jaya	Universiti Teknologi Malaysia
2020	Assessment of Macrocomposite In Domestic Wastewater Treatment	Universiti Teknologi Malaysia
2020	Microcomposite Technology: Effects of Macrocomposite Arrangement on Water Quality Effluent at Taman Jaya Residential Area	Universiti Teknologi Malaysia
2019	Improving Food Waste Decomposition by Controlling the pH, Moisture Content and Temperature	Universiti Teknologi Malaysia
2019	The Effectivity of Macrocomposite Adsorption for Treating Restaurant Grease Trap Effluent	Universiti Teknologi Malaysia
2019	Effectivity of Macrocomposite Treatment for Laundry Wastewater	Universiti Teknologi Malaysia

2019	Study on the Effectiveness of Macrocomposites for the Treatment of Wastewater from Wet Market	Universiti Tun Hussein Onn Malaysia
2019	Effectiveness of Macrocomposites for the Treatment of Car Wash Wastewater at Panchor	Universiti Tun Hussein Onn Malaysia
2019	Effectiveness of Macrocomposites for the Treatment of Used Water from UTHM Pagoh Cafe	Universiti Tun Hussein Onn Malaysia
2019	Effectiveness of Macrocomposites for the Treatment of Laundry Wastewater Effluent at UTHM Pagoh Campus Student Residential College	Universiti Tun Hussein Onn Malaysia
2017	Biogranules Containing Photosynthetic Bacteria for Carbon Dioxide Reduction in Palm Oil Mill Effluent Treatment	Universiti Teknologi Malaysia
2009	Treatment of Synthetic Textile Wastewater by Using Biological Granulation	Universiti Teknologi Malaysia
2008	Treatment of Peat Soil Water Using Limestone and Activated Carbon Adsorption	Universiti Teknologi Malaysia

Research Grants and Contracts / Project

Title of Fund / Project	Designation	End Date
Application of Stem Activity in Learning the Basic Concept of Water Treatment for Secondary School Students	Principal Investigator	2019
Application of Stem Activity in Learning the Basic Concept of Environmental Sustainability for Secondary School Students	Principal Investigator	2019
Equine Therapeutic: Riding For Special Need And Ecology Sustainability	Co-researcher	On-going
Wind Flows Visualisation and Transient Response Attributable to River Reserve Vegetation Structure	Co-researcher	On-going
Determining the Sorption Behaviour of Nickel and Cadmium Ions During Struvite Crystallization in Wastewater	Co-researcher	On-going
Carbon Dioxide Adsorption Between Liquid-Gas Phase in Palm Oil Mill Effluent (POME) Using POME-Sludge System	Principal Investigator	On-going (30/06/2021)
An Investigation of Tribological Characteristic of Plant-Based Additive to Accelerate the Food Waste Decomposition Process, FRGS	Co-researcher	On-going (31/12/2021)
Ammonia Recovery from Palm Oil Mill Effluent Using Coconut Pith, TDRG	Co-researcher	On-going (30/11/2020)
Housing Deficiency Index (HOUD1) For Determining Housing Quality In Malaysia	Co-researcher	On-going (25/12/2019)
<i>"Selamatkan, Sayangi Sungai", Rawatan Air dan Air sisa Menggunakan Macrocomposites, Projek Komuniti UTM, Majlis Bandaraya Iskandar Puteri (MBIP) dan Think City</i>	Researcher	On-going (2019)
Identification on the biological properties and microbial communities in the formed anaerobic and aerobic biogranular sludge, CRG 15.4	Principal Investigator	On-going (2019)
Management of Portable Toilet Septage at Construction Sites, TDRG	Principal Investigator	Proposal level (2018)
LOVE OUR RIVER- Phase 1: Skudai River, TDRG	Co-researcher	Proposal level (2018)

Consultancies

Year	Description	Level
2019	Consultant advisor for HMM Planning Consultant, Project “ <i>Rancangan Kawasan Khas (RKK) Sungai Skudai, Kulai</i> ” lead by Majlis Perbandaran Kulai (MPKu), Johor, 2019-2020	District
2017	Research assistant, Project “Green and Efficient Treatment of Batik Wastewater using MICROCLEAR Technology” funded by Ministry of Higher Education (MOHE), UTM Skudai, Johor, 2017-2018	Government
2016	Research assistant, Project "Evaluation of Flood Disaster Impacted on Water Quality and Aquatic Habitat in Water Environment" funded by Ministry of Higher Education (MOHE), IPASA UTM, UTM Skudai, Johor, 2014-2016	Government
2012	Research assistant, Project on water quality analysis near Kuala Terengganu for Department of Irrigation & Drainage (DID), UTM Skudai, Johor	Government
2010	Research assistant, Project “Development of Anaerobic Granules Containing New Specialised Dye Degrading Microbes for Raw Textile Dyeing Wastewater Treatment”, UTM Skudai, Johor	University
2008	Research assistant, Project “Microclear for the Treatment of Coloured Wastewater”, UTM Skudai, Johor	University

Participations & Professional Memberships

Year	Description
2020	Participant, Techniques for Effective Research with IEEE Xplore®
2020	Participants, CEE UTM WEBINAR SERIES: Problem Based Learning for Developing Holistic Future Ready Graduates by Prof. Dr. Khairiyah Mohd. Yusof
2020	Participant, CEE UTM WEBINAR SERIES: HOW TO GET ONLINE STUDENTS ACTIVELY ENGAGED by Prof. Richard Felder & Prof. Rebecca Brent
2019	Participant, High Impact Journal Publication Workshop, Faculty of Engineering
2018	Participant, ‘Writing Proposal – Developing a Winning Solution’ Workshop
2018	Participant, Program Orientasi & Sosialisasi UTM Siri 7/2018
2017	Graduate Engineer, Board of Engineers Malaysia (BEM)
2015	Presenter, The 2 nd IWA Malaysia Young Water Professionals Conference 2015
2014	Presenter, The 7 th International Conference on Challenge in Environmental Science & Engineering (CESE)
2012	Presenter, International Seminar of Analytical Sciences (SKAM 25)
2012	Participant, IWA-UTM International Publication Workshop, UTM
2011	Presenter, 2011 Low Carbon Earth Summit (LCES-2011), Dalian, China
2011	Participant, Equipment training on Digital Image Analysis (PAXIT) & Digital Microscopic Camera (PAXCAM), UTM
2010	Participant, Postgraduate Seminar on Water Sustainability (UTM-UNESCO), UTM

Professional & Public Services

Year	Description	Level
2020	President, Johor Tennis Association (JTA), Johor	State
2020	Editor, Medical Technology and Public Health Journal, Universitas Nahdlatul Ulama Surabaya, Indonesia	International
2020	Committee member, <i>Operasi</i> Graduate Employability (OpsGE 95)	University
2020	Committee member, SKAZINE e-magazine, School of Civil Engineering, UTM	Faculty
2020	Speaker, SKA SHINE Meeting & Sharing Session #2: Online Teaching for Young Lecturers	Faculty
2020	Moderator, SKA FREE Sharing Session #4: Video Lectures Recording & Editing Using Camtasia	Faculty
2020	Group leader, Active Learning, UTM FUTURE READY EDUCATORS (FREE), UTM	Faculty
2020	Facilitator, <i>Kursus Kompetensi Staf Teknikal - Tahap 1</i> , School of Civil Engineering, UTM	Faculty
2019	Reviewing Committee Member, 5 th GoGreen Summit & the Remedies for Climate Change, Singapore	International
2019	Committee member, Mentor-Mentee Program MESTECC-UTM-SMK Nusajaya, Johor	National
2019	Committee member, Publication Task Force, Book Proceeding of Civil Engineering	Faculty
2019	Committee member, International UTM Bridge Model Competition (UTMBRIDGE 2019)	International
2018	Officer, UTM Postgraduates Information Day 2018, UTM KL	University
2018	Interviewer, UTM Degree ++ "How to Get Yourself Employed (HTGYE)" Session 2018/2019	University
2018	Reviewer, Malaysian Journal of Civil Engineering Technology (MJCE)	University
2018	Reviewer, International Conference on Sustainable Construction and Structures (ISuCOS)	International
2018	Interviewer, UTM Degree ++, 'How to Get Yourself Employed (HTYGE)', Session 2018/19	University
2018	Committee, Publication Committee member, 3 rd Proceeding of Civil Engineering (Environmental, Hydraulics and Hydrology)	University
2018	Reviewer, 12 th International Civil Engineering Post Graduate Conference (SEPKA) – 3 rd International Symposium on Expertise of Engineering Design (SEED)	International
2018	Treasurer, Asia TVET Experts Forum (ATEF 2018)	International
2018	Facilitator, Harnessing Microbes for Sustainable Water Treatment Workshop 2018	University
2018	<i>Bengkel Iniatif D1 Lonjakan 4: Membentuk Program Teknologi Tinggi dan Bernilai Tinggi Siri 1</i>	Government
2015	Referee, <i>Kejohanan Tenis Johor Junior, Persatuan Tenis Johor</i> , Johor Bahru	District
2015	Referee, <i>Sukan Bomba Malaysia, Jabatan Bomba & Penyelamat Malaysia</i> , Johor Bahru	National
2015	Linesman, <i>Kejohanan Tenis CIMB Cawangan Asia Tenggara</i> , CIMB Sdn Bhd & <i>Persatuan Tenis Johor</i> , Johor Bahru, Malaysia	International
2009	Committee member, UTM Biogranule Research Workshop, Pulau Spring Golf Resort, Skudai	Faculty
2008	Secretariat, International Conference & Expo on Environmental Management & Technology (ICEEMAT), PWTC, Kuala Lumpur, Malaysia	International

Extra-Curricular Activities

Year	Description	Level
2017	Tennis, <i>Karnival Sukan Majlis Sukan Universiti Malaysia (MASUM)</i> , UKM Bangi, Selangor	National
2016	Tennis, <i>Majlis Perbandaran Johor Bahru Tengah (MPJBT) Independence Day Open Tennis Competition</i> , Johor	State
2015	Tennis, Open Tennis Competition Pendarosa Golf & Country Resort, Johor Bahru, Johor	State
2015	Tennis, <i>Beregu Tertutup Anjuran Match Point Sports (MC)</i> , Perling, Johor	State
2014	Tennis, MPJBT Independence Day Open Tennis Competition, Johor	State
2010	Semi-finals Round, Petanque Tournament, UTM Beach Sports Competition, UTM Skudai, Johor	University
2009	Tennis, Johor Bahru Closed Tennis Competition, Kelab Tenis Negeri Johor, Johor	State
2008	Tennis, UTM Colleges Sports Competition between Students (SUKAM), UTM Skudai, Johor	University
2008	Tennis (single & doubles), Kolej Tun Hussein Onn (KTTHO) Sport's Day, UTM Skudai, Johor	College
2007	Tennis (single), University's Open Tennis Competition, UTM Skudai, Johor	University