



DIANAH MAZLAN

Senior Lecturer

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Biography

I began my academic journey by earning a Bachelor's degree (B.Eng) in Civil Engineering from Universiti Teknologi Malaysia. Then, I pursued my Master's degree (M.Eng) and PhD in Civil Engineering from the same university where I specialized in sustainable construction, green materials and cellulosic nanomaterials. During my academic career, I was recognized for my exceptional academic performance and awarded several prestigious scholarships and fellowships. I also served as a project manager, research assistant and research officer for various research projects related to sustainable construction, which provided me with invaluable experience in the field. After completing my Ph.D., I joined the School of Civil Engineering at Universiti Sains Malaysia as a Senior Lecturer. In this role, I have been given a chance to expand my research study on sustainable construction materials. My research on green construction materials and cellulosic nanomaterials has garnered widespread attention and recognition. My work has been published in high-impact academic journals and has been cited by researchers around the world. In addition to my research, I am actively involved in community outreach and sustainability advocacy. I regularly participate in panel discussions on the importance of sustainability in construction and the role of green materials in achieving sustainable development goals. I will continue to contribute to the field of civil engineering and sustainability that have a lasting impact on the institution, industry, and communities for years to come.

Professional Experience

Senior Lecturer , <i>Universiti Sains Malaysia (USM)</i>	2023 – present
Project Manager , <i>UTM Campus Sustainability (UTMCS)</i>	2020 – 2022
Research Officer , <i>Universiti Teknologi Malaysia (UTM)</i>	2020
Research Assistant , <i>Universiti Teknologi Malaysia (UTM)</i>	2019
Part Time Lecturer , <i>Universiti Teknologi MARA (UiTM), Perak</i>	2018 – 2019
Working Student Scheme , <i>Universiti Teknologi Malaysia (UTM)</i>	2016 – 2018
Private Tutor / Mentor , <i>Asyikin Management</i>	2018
Visiting Research Fellow , <i>Waseda University</i>	2016
Research Student Grant , <i>Universiti Teknologi Malaysia (UTM)</i>	2012 – 2013
Graduate Assistantship , <i>Universiti Teknologi Malaysia (UTM)</i>	2013
Internship , <i>Perunding Aidid</i>	2011

Publications

- Good Practices in Sustainability from EU and Malaysian universities, MYSUN project. Erasmus+ programme.** 2022
Author : D. Mazlan, S. Mat Taib and M.F. Md Din
- Local Stakeholders & Consumer Awareness On Fluorocarbon Gas Management In Malaysia, Sustainability Management strategies and Impact in Developing countries, Community, Environment and Disaster risk Management (CEDRM), Volume 26, 217-229** 2022
Author : Nurul Nazleatul Najihah Binti Mohd Nazif, Shazwin Mat Taib, Mohd Fadhil Md Din, Nurfarhain Mohammed Rusli and **Dianah Mazlan**
(Indexed by Scopus)
- Effect of reduction of heat using Kenaf fibrous pulverised fuel ash concrete in hydration process, IOP Conference Series: Materials Science and Engineering, vol 1153** 2021
Author : N M Azzmi, J M Yatim, **D Mazlan**, Norhidayah Md Ulang, S Z Hashim and N A S Kamarudin
(Indexed by Scopus)
- Effect of Cellulose Nanocrystals Extracted from Oil Palm Empty Fruit Bunch as Green Admixture for Mortar, Nature, Sci Rep 10, 6412** 2020
Author: **Dianah Mazlan**, Santhana Krishnan, Mohd Fadhil Md Din, Chiharu Tokoro, Nur Hafizah Abd Khalid, Izni Syahrizal Ibrahim, Hideki Takahashi and Daisuke Komori
(Q1 Journal, Impact Factor 5.0)
- Properties of Cement Based Composites Containing Oil Palm Stem as Fiber Reinforcement, Malaysian Journal of Civil Engineering, vol 24(2)** 2018
Author: **Dianah Mazlan** and A.S.M. Abdul Awal
(Indexed by Scopus)
- Preliminary Investigation of Acoustical Properties of Concrete Containing Oil Palm Shell as an Aggregate Replacement, International Conference on Civil & Environmental Engineering (CENVIRON 2017), vol 34** 2018
Author : J. Zanariah, H. Zaiton, Y. Musli Nizam, Y. Khairulzan, **M. Dianah**, D. Nadirah and O. Mohd Hanifi
- Cellulose Nanocrystals Addition Effects on Cement Mortar Matrix Properties, International Journal of Advances in Mechanical and Civil Engineering, vol. 3, no. 1, pp. 44-48, 2016** 2016
Author: **Dianah Mazlan**, Mohd Fadhil Md Din, Chiharu Tokoro and Izni Syahrizal Ibrahim
(Impact Factor 3.6)
- Cellulose Nanocrystals Addition Effects on Cement Mortar Matrix Properties, Proceedings of Research World International Conference, Osaka, Japan** 2015
Author : **Dianah Mazlan**, Mohd Fadhil Md Din, Chiharu Tokoro and Izni Syahrizal Ibrahim

- Mechanical Properties of Cement Composites Incorporating Oil Palm Stem Fiber**, *Proceedings of the International Civil and Infrastructure Engineering Conference 2013 (InCIEC 2013)*, Springer, Singapore.
Author: **Dianah Mazlan** and A.S.M Abdul Awal 2014
- The Role of Expanding Admixture in the Development of Strength of Prepacked Concrete**, *Proceedings of the Thirteenth East Asia-Pacific Conference on Structural Engineering and Construction (EASEC-13)*, Sapporo, Japan, E-5-4.
Author: A.S.M. Abdul Awal, Shahrin Mohammad and **Dianah Mazlan** 2013
- Utilization of soft drink can as fiber reinforcement in concrete**, *EACEF - International Conference of Civil Engineering, [S.I.]*, v. 1, p. 001
Author: A.S.M. Abdul Awal, **Dianah Mazlan** and Md Latif Mansur 2011

Awards

- Research Fellowship Award**,
Japan International Cooperation Agency (JICA) 2016
- AUN/SEED-Net Scholarship (PhD sandwich Program)**,
ASEAN University Network/Southeast Asia Engineering Education Development Network (AUN/SEED-Net) 2014
- UTM ZAMALAH Scholarship**,
Universiti Teknologi Malaysia (UTM) 2012
- MARA Scholarship**, *Majlis Amanah Rakyat* 2007