

MOTASEM ALAZAIZA, PhD

Assistant Professor

Head - Department of Civil and Environmental Engineering

A'Sharqiyah University

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EDUCATION

Ph.D. in Civil and Environmental Engineering, 2018

University Malaysia Pahang

MSc. in Civil Engineering – Water Resources Engineering, 2013

Islamic University of Gaza - Palestine

B.E. in Civil Engineering, 2009

Islamic University of Gaza – Palestine

RESEARCH INTERESTS

Fate and Transport of Pollutants in the Environment, Groundwater Flow and Contaminant Transport, Subsurface Characterization, Groundwater Remediation, Removal of NAPLs from Porous Media, Engineered Nanoparticles for Groundwater Remediation, Water and Wastewater Treatment, Landfill Leachate Treatment, Solid Waste Management

TEACHING EXPERIENCE

A'Sharqiyah University- Department of Civil and Environmental Engineering

Head of Civil and Environmental Engineering Department, Sep 2022 – Now

Assistant Professor, Sep 2019 – Now

Hasan Kalyoncu University at Gaziantep, Turkey – Civil Engineering Department

Assistant Professor, Feb 2019 – Sep 2019

University Sains Malaysia at Penang, Malaysia

Teaching Fellow, Jan 2018 – Jan 2019

WORK EXPERIENCE

Research Assistant, University Malaysia Pahang, Malaysia

Jan 2015 – Jan 2018

ADMINISTRATION WORK

Head of Civil and Environmental Engineering Department, A'Sharqiyah University

Sep 2022 – Now

Chairman of Bachelor of Water Engineering Program Development Committee, A'Sharqiyah University.

Chairman of University Research Committee, College of Engineering, A'Sharqiyah

University

Member of University Research Ethics and Biosafety Committee, A'Sharqiyah University

RESEARCH PROJECTS

The Research Council of Oman

Oman

Status: Ongoing, Budget: 3,000 Omani Rial (7,700 USD\$)

Dec. 2022–Nov. 2024

Title: Appraisal of student's awareness and practices on waste management and recycling in A'Sharqiyah University's student hostel area

The Research Council of Oman

Oman

Status: Ongoing, Budget: 20,000 Omani Rial (52,000 USD\$)

Dec. 2021–Nov. 2023

Title: Utilization of produced water as a growth medium for algae cultivation and biofuel production

The Research Council of Oman

Oman

Status: Ongoing, Budget: 3,000 Omani Rial (7,700 USD\$)

Dec. 2021–Nov. 2023

Title: Wastewater Treatment of Hospitals Using Electrochemical Oxidation Process: Ibra Hospital as A Case Study

The Research Council of Oman

Oman

Status: Finished, Budget: 19,990 Omani Rial (51,700 USD\$)

Nov. 2020–Nov. 2022

Title: Remediation of Petroleum Compounds and Industrial Liquids of Oman Groundwater using Cosolvent Flushing and Chemical Oxidation

The Research Council of Oman

Oman

Status: Finished, Budget: 3,000 Omani Rial (7,700 USD\$)

Nov. 2020 – Nov. 2021

Title: Development of Water Safety Plan for Desalinated Use in Oman.

Ministry of Higher Education

Malaysia

Status: Finished, Budget: 67,000 RM (16,750 USD\$)

Jan. 2015 – Sep. 2017

Title: Contaminant Fate and Transport in Double-porosity soil using Light Transmission.

EDITORIAL WORK

Associate Editor, *Journal of Porous Media*, 2018-Now

Associate Editor, *Special Topics and Reviews in Porous Media: An International Journal*, 2018-Now

Associate Editor, *Water and Climate*, 2021 – Now

Reviewer for the following Journals:

Journal of Hydrology; Journal of Contaminant Hydrology; Hydrogeology Journal;; Hydrological Processes; Water Air and Soil Pollution; HydrologyResearch; Journal of Porous Media, Water, Processes, Materials, Process Safety and Environmental Protection; International Journal of Environmental Analytical Chemistry; BioChem; Energies; Environmental Nanotechnology, Monitoring & Management; International Journal of Environmental Research and Public Health; Molecules; Journal of Environmental Science and Health, Part B; PLOS One.

PEER REVIEWED JOURNAL PUBLICATIONS

- [1] **Alazaiza, M.Y.D.**, Albahnasawi, A., Al Maskari, T., Abujazar, M.S.S., Bashir, M.J.K., Nassani, D.E., Abu Amr, S. (2023) Biofuel Production using Cultivated Algae: Technologies, Economics, and Its Environmental Impacts, *Energies*, 16, 1316.
- [2] **Alazaiza, M.Y.D.**, Albahnasawi, A., Eyvaz, M., Nassani, D.E., Abu Amr, S., Al Maskari, O., Abujazar, M.S.S. (2023) Electrochemical-based advanced oxidation for hospital wastewater treatment, *Desalination and Water Treatment*, 300, 44-56.
- [3] **Alazaiza, M.Y.D.**, Ahmed, Z., Albahnasawi, M., Nassani, D.E., Alenezi, R. (2023) Biomass processing technologies for bioenergy production: factors for future global market, *International Journal of Environmental Science and Technology*, doi: 10.1007/s13762-023-05211-1.
- [4] Liew, L., Bashir, M.J.K., Yi, T., **Alazaiza, M.Y.D.**, Abu Amr, S., Khoo, K. (2023) Microalgae cultivation in stabilized landfill leachate for simultaneous treatment and biomass production, *Journal of the Taiwan Institute of Chemical Engineers*, 105068.
- [5] Ismail, R., Al-Raoush, R., **Alazaiza, M.Y.D.** (2023) The impact of water table fluctuation and salinity on LNAPL distribution and geochemical properties in the smear zone under completely anaerobic conditions, *Environmental Earth Sciences*, 82, 368.
- [6] Allawati, M., Al Jadili, T., **Alazaiza, M.Y.D.**, Alenezi, R., Nassani, D. (2023) Inhibiting the growth of microbes on the air-cathode in the microbial fuel cell by using an antimicrobial agent, *Desalination and Water Treatment*, 297, 131-137.
- [7] Ab Ghani, Z., Yusoff, M., **Alazaiza, M.Y.D.**, Akinbili, C., Abd Manan, T. (2023) Landfill Leachate Treatment by Activated Carbon (AC) from Banana Pseudo-Stem, Iron Oxide Nanocomposite (IOAC), and Iron Oxide Nanoparticles (IONPs), *Journal of Environmental Chemical Engineering*, 11, 110132.
- [8] **Alazaiza, M.Y.D.**, He, S., Su, D., Abu Amr, S., Yi, T., Bashir, M.J.K. (2023) Sewage Water Treatment Using *Chlorella Vulgaris* Microalgae for Simultaneous Nutrient Separation and Biomass Production, *Separations*, 10, 229.
- [9] Abu Amr, S., Abujazar, M., Ugurlu, S., Mahfud, R., Alazaiza, M.Y.D., Hamad, R. (2023) Application of plant-based natural coagulant for sustainable treatment of steel and iron industrial wastewater, *Karabuk, Turkey*, 287, 39-45.
- [10] Abu Amr, S., Abujazar, M., Alazaiza, M.Y.D., Albahnasawi, A., Bashir, M.J.K., Nassani, D. (2023) The potential use of natural coagulants for microalgae harvesting: a review, *Water Quality Research Journal*, 58, 54-74.
- [11] **Alazaiza, M.Y.D.**, Albahnasawi, A., Al Maskari, T., Abujazar, M.S.S., Bashir, M.J.K., Nassani, D.E., Abu Amr, S. (2023) Biofuel Production using Cultivated Algae: Technologies, Economics, and Its Environmental Impacts, *Energies*, 16, 1316.
- [12] **Alazaiza, M.Y.D.**, Albahnasawi, A., Eyvaz, M., Al Maskari, T., Abujazar, M.S.S., Bashir, M.J.K., Nassani, D.E., Abu Amr, S. (2023) An Overview of Green Bioprocessing of Algae-Derived Biochar and Biopolymers: Synthesis, Preparation, and Potential Applications, *Energies*, 16, 1-23.

- [13] Abu Amr, S., Abujazar, M.S.S., Uruglu, S., **Alazaiza, M.Y.D.**, Bashir, M.J.K., Fatihah, S. (2023) Factorial design and optimization of date stone as a natural coagulant for organic and heavy metals removal from industrial wastewater, *Global Nest Journal*, 2, 99-107.
- [14] **Alazaiza, M.Y.D.**, Al Maskari, T. (2023) Source to tap water quality assessment in drinking water supply system in Oman, *IOP Conference Series Earth and Environmental Science*, 1135, 012019.
- [15] Bashir, M.J.K., **Alazaiza, M.Y.D.**, Sheng, T., Abu Amr, S. (2023) Treatment of Poultry Wastewater with Tannin as a Natural Coagulation Agent, *IOP Conference Series Earth and Environmental Science*, 1135, 012009.
- [16] Wazirali, R., Abujazar, M.S.S., Abujayyab, S., Ahmed, R., Fatihah, S., **Alazaiza, M.Y.D.**, Bashir, M.J.K., Abu Amr, S. (2022) Productivity modelling of an inclined stepped solar still for seawater desalination using boosting algorithms based on experimental data, *Desalination and Water Treatment*, 276, 28-39.
- [17] Ugurlu, S., Abujazar, M.S.S., Kopan, M., Ahmed, R., Fatihah, S., Abu Amr, S., **Alazaiza, M.Y.D.**, (2022) The potential use of olive seeds powder as plant-based natural coagulant for sustainable treatment of industrial wastewater, *Desalination and Water Treatment*, 277, 169-176.
- [18] Abu Amr, S., Abujazar, M.S.S., **Alazaiza, M.Y.D.**, Albahnasawi, A., Bashir, M.J.K., Nassani, D. (2022) The potential use of natural coagulants for microalgae harvesting: a review, *Water Quality Research Journal*, doi.org/10.2166/wqrj.2022.026.
- [19] **Alazaiza, M.Y.D.**, Albahnasawi, A., Ahmed, Z., Bashir, M.J., Al-Wahaibi, T., Abujazar, M.S.S., Abu Amr, S., Nassani, D.E. (2022) Potential use of algae for the bioremediation of different types of wastewater and contaminants: Production of bioproducts and biofuel for green circular economy, *Journal of Environmental Management*, 324, 116415.
- [20] **Alazaiza, M.Y.D.**, Albahnasawi, A., Al-Maskari, O., Al Maskari, T., Abu Amr, S., Abujazar, M.S.S. Nassani, D.E. (2022) Role of natural coagulants in the removal of heavy metals from different wastewaters: principal mechanisms, applications, challenges, and prospects. *Global Nest Journal*, 24, 594-606.
- [21] **Alazaiza, M.Y.D.**, Albahnasawi, A., Coptly, N., Ali, G. A., Bashir, M. J., Al Maskari, T., Abu Amr, S., Abujazar, M.S.S. Nassani, D.E. (2022) Thermal based remediation technologies for soil and groundwater: a review: A review. *Desalination and Water Treatment*, 259, 206-220.
- [22] **Alazaiza, M.Y.D.**, Albahnasawi, A., Al-Maskari, O., Ali, G. A., Eyvaz, M., Abu Amr, S., Nassani, D.E., Abujazar, M.S.S. (2022) Microplastic in the environment: identification, occurrence, and mitigation measures. *Desalination and Water Treatment*, 272, 233-247.
- [23] Abu Amr, S., Abujazar, M.S.S., AlKarkhi, A., **Alazaiza, M.Y.D.**, Alqaraghuli, W., Hamad, R., Ozdemir, Y., Ibrahim, E. (2022) Multivariate models for the effect of two coagulants on palm oil mill effluents. *Desalination and Water Treatment*, 269, 204-212.
- [24] Abujazar, M.S.S., Karaağaç, S., Abu Amr, S., **Alazaiza, M.Y.D.**, M.J.K., Bashir (2022)

Recent advancements in plant-based natural coagulant application in the water and wastewater coagulation-flocculation process: challenges and future perspectives. *Global Nest Journal*, 24, 687-705.

- [25] Bashir, M.J., Sheen, O.S., Ng, C.A, Abujazar, M.S.S., **Alazaiza, M.Y.D.**, Abu Amr, S. (2022) Advanced Treatment of Palm Oil Mill Effluent Using Thermally Activated Persulfate Oxidation. *Separations*, 9, 171.
- [26] Abujazar, S.S., Karaağaç, S., Ramadan, H., Abu Amr, S., **Alazaiza, M.Y.D.** (2022) Application of pinecones powder as a natural coagulant for sustainable treatment of industrial wastewater. *Desalination and Water Treatment*, 269, 57-64.
- [27] Abujazar, S.S., Karaağaç, S., Abu Amr, S., Fatihah, S., Bashir, M.J., **Alazaiza, M.Y.D.**, Ibrahim, E. (2022) The effectiveness of rosehip seeds powder as a plant-based natural coagulant for sustainable treatment of steel industries wastewater. *Desalination and Water Treatment*, 270, 44-51.
- [28] **Alazaiza, M.Y.D.**, Albahnasawi, A., Al Maskari, T., Nassani, D.E. (2022) Benefits, Challenges and Success Factors of Water Safety Plan Implementation: A Review. *Global Nest Journal*, 24, 414-425.
- [29] Abushammala, M., Qazi, W., Gaber, S., **Alazaiza, M.Y.D.**, Younes, M. (2022) Site Selection of Municipal Solid Waste Incineration Plant using GIS and Multi-criteria Decision Analysis. *Journal of the Air & Waste Management Association*, 72, 1027-1039.
- [30] Tong, C.Y., Bashir, M.J., Abu Amr, S., **Alazaiza, M.Y.D.** (2022) Factorial design and optimization of thermal activation of persulfate for stabilized leachate treatment. *Desalination and Water Treatment*, 250, 211-220.
- [31] Abujazar, S.S., Karaağaç, S., Abu Amr, S., **Alazaiza, M.Y.D.**, Bashir, M.J. (2022) Recent Advancement in the Application of Hybrid Coagulants in Coagulation-Flocculation of Wastewater: A review. *Journal of Cleaner Production*, 345, 131133.
- [32] **Alazaiza, M.Y.D.**, Albahnasawi, A., Ali, G. A., Bashir, M. J., Nassani, D.E., Al Maskari, T., Abu Amr, S., Abujazar, M.S.S. (2022) Nanoscale zero-valent iron for the remediation of soil and groundwater contaminated with heavy metals: A review. *Desalination and Water Treatment*, 253, 194-210.
- [33] **Alazaiza, M.Y.D.**, Albahnasawi, A., Ali, G. A., Bashir, M. J., Nassani, D. E., Al Maskari, T., Abu Amr, S., Abujazar, M.S.S. (2022) Application of Natural Coagulants for Pharmaceutical Removal from Water and Wastewater: A Review. *Water*, 14(2), 140, doi.org/10.3390/w14020140
- [34] **Alazaiza, M.Y.D.**, Albahnasawi, A., Coptly, N., Bashir, M.J.K, Abu Amr, S., Abushammala, M., Nassani, D., Al Maskari, T. (2022) An overview of Chemical oxidation-based remediation of NAPL from soil and groundwater. *Global Nest Journal*, doi.org/10.30955/gnj.003909
- [35] **Alazaiza, M.Y.D.**, Abdel Fattah, F., Al Maskari, T., Bashir, M.J.K., Nassani, D., Albahnasawi, A., Abushammala, M., Hamad, R. (2022) Effect Of COVID-19 Pandemic on Food Purchasing and Waste Generation during the Lockdown Period in The Sultanate of Oman. *Global Nest Journal*, 24, 59-64. doi.org/10.30955/gnj.004157

- [36] Zakaria, S.N., Aziz, H.A., **Alazaiza, M.Y.D.** (2022) Effectiveness of ozonation with zirconium and tin tetrachloride for stabilised anaerobic landfill leachate treatment. *Water Environment Research*, doi.org/10.1002/wer.1672
- [37] Boumaiza, L., Chesnaux, R., Walter, J., Lenhard, R., Hassanizadeh, S., Dokou, Z., **Alazaiza, M.Y.D.** (2022) Predicting vertical LNAPL distribution in the subsurface under the fluctuating water-table effect. *Groundwater Monitoring and Remediation*, doi.org/10.1111/gwmmr.12497.
- [38] Aziz, H., Rahmat, N., **Alazaiza M.Y.D.** (2021) The Potential Use of *Nephelium lappaceum* Seed as Coagulant–Coagulant Aid in the Treatment of Semi-Aerobic Landfill Leachate, *International Journal of Environmental Research and Public Health*, 19, 420.
- [39] Ayash, M. M. A., SS, A. A., Alkarkhi, A. F. M., **Alazaiza, M.Y.D.**, Hamad, R.J. (2021) Performance of combined persulfate and tannin for the treatment of anaerobically treated palm oil mill effluent. *Global Nest Journal*, 23, 444-448.
- [40] Ng, Y.L., Aldahdouh, M.A., **Alazaiza, M.Y.D.**, Bashir, M.J.K., Soon, C. V., Ng, C.A. (2022) Influence of alum sludge ash and ground granulated blast furnace slag on properties of cement mortar, *Cleaner Engineering and Technology*, 6, 100376.
- [41] **Alazaiza, M.Y.D.**, Albahnasawi, A., Ali, G., Bashir, M.J.K., Coptly, N., Abu Amr, S., Abushammala, M., Almaskari, T. (2021). Recent Advances of Nanoremediation Technologies for Soil and Groundwater Remediation: A Review. *Water*, 13, 2186.
- [42] Aziz, H., Zainal, S., Omar, F., **Alazaiza, M.Y.D.** (2021) The influence of *Jatropha curcas* seeds as a natural flocculant in reducing Tin (IV) tetrachloride in the treatment of concentrated stabilized landfill leachate. *Chemosphere*, 285,131484.
- [43] Zainal, S., Aziz, H., Omar, F., **Alazaiza, M.Y.D.** (2021) Sludge performance in coagulation-flocculation treatment of stabilized landfill leachate using Tin (IV) chloride and *Jatropha Curcas*. *International Journal of Environmental Analytical Chemistry*, 10.1080/03067319.2021.1931161.
- [44] **Alazaiza, M.Y.D.**, Al Maskari, T., Albahnasawi, A., Abu Amr, S., Abushammala, M., Aburas, M. (2021) Diesel migration and distribution in capillary fringe using different spill volumes via image analysis. *Fluids*, 6, 189.
- [45] Qazi, W., Abushammala, M., **Alazaiza, M.Y.D** (2021) Investigation of Integrated Municipal Solid Waste Management Strategies for Oman: Waste Diversion, Electricity Generation and Greenhouse-Gas Emissions. *Journal of Material Cycles and Waste Management*, <https://doi.org/10.1007/s10163-021-01240-5>
- [46] Yusoff, MS., Juni, F., Ahmed, Z., Aziz, HA., **Alazaiza, M.Y.D** (2021) *Dioscorea hispida* starch as a novel natural coagulant in textile wastewater treatment. *Journal of Engineering and Technological Sciences*, 53, 201207
- [47] Adam, NH., Yusoff, MS., Walalinggam, K., Aziz, HA., Alazaiza, M.Y.D (2021)

Effectiveness of Activated Carbon-Based on Oil Palm Frond for Removing COD, Colour and Fe in Landfill Leachate. *Journal of Engineering and Technological Sciences*, 53, 210104

- [48] Nashid, S., Alroush, R., **Alazaiza, M.Y.D** (2021) Release of Colloids in Saturated Porous Media under Transient Hydro-Chemical Conditions: A Pore-Scale Study. *Colloids and Surfaces A: Physicochemical Aspects*, 614, 126188
- [49] Akbar, N., Aziz, HA., **Alazaiza, M.Y.D** (2021) Effectiveness of Fe, Mn, UV254 and color removal from pre-ozonated groundwater using anthracite coal. *International Journal of Environmental Research*, 15, 245-259.
- [50] **Alazaiza M.Y.D.**, Ramli, H., Coptly, N., Mah, C. (2021) Assessing the impact of water infiltration on LNAPL mobilization in a sand column using simplified image analysis method, *Journal of Contaminant Hydrology*, 238, 103769.
- [51] Aburas, M., Ming, HY., Pradhan, B., Salleh, A., **Alazaiza, M.Y.D** (2021) Spatio-temporal simulation of future urban growth trends using an integrated CA-Markov model. *Arabian Journal of Geoscience*, 14, doi.org/10.1007/s12517-021-06487-8
- [52] Abu Nada, Z., **Alazaiza, M.Y.D**, Bashir, M.J.K (2020) An overview of Per- and Polyfluoroalkyl Substances (PFAS): Source, Fate, Risk and Regulations. *Water* , 12, 3590
- [53] Yusoff, MS., Basenun, NFS., Yusoff, NHM., Aziz, HA., **Alazaiza, M.Y.D** (2020) Carbon Electrodes Electrolysis Process in Removing COD, Turbidity and Color for Textile Wastewater. *Advancement in Civil Engineering and Technology*, 4, 1-12.
- [54] Abu Amr, S., **Alazaiza, M.Y.D.**, Bashir, M.J.K., Alkarakhi, A., Aziz, S (2020) The performance of S₂O₈²⁻/Zn²⁺ oxidation system in landfill leachate treatment. *Physics and Chemistry of the Earth*, 120, 102944.
- [55] Aziz, H., AlGhuri, H., **Alazaiza, M.Y.D.**, Noor, A (2021) Sequential treatment for stabilized landfill leachate by ozonation–adsorption and adsorption–ozonation methods. *International Journal of Environmental Science and Technology*, 18, 861-870.
- [56] Ajeeb R., Aburas M., Baba F., Ali A., **Alazaiza M.Y.D** (2020) The Prediction of Urban Growth Trends and Patterns using Spatio-temporal CA-MC Model in Seremban Basin. *IOP Conference Series: Earth and Environmental Science*, 540, 012028.
- [57] Mokhtar, N., Almadhoun, W., Alazaiza, **M.Y.D.**, Balogun, AL., Yahya, NK., Ros, FC (2020) Investigation of Air Pollution Impact on Kinta River Water Quality at a Tropical Region. *IOP Conference Series: Materials Science and Engineering*, 875, 012020
- [58] Aziz, H., Noor, A., Keat, Y., **Alazaiza, M.Y.D.**, Hamid, A (2020) Heat Activated Zeolite for the reduction of Ammoniacal Nitrogen, Colour, and COD in Landfill Leachate. *International Journal of Environmental Research*, 14, 463-478.
- [59] Aziz H., Ibrahim, N., **Alazaiza M.Y.D**, Win CK (2020) The removal efficiency of total coliform, Escherichia coli, suspended solids, UV254, and color using Zeliac filter in riverbank filtration system. *Water Quality Research Journal*, 55, 24-35.

- [60] Aziz, H., Tajarudin, H., Wei, T., **Alazaiza M.Y.D** (2020) Iron and Manganese removal from groundwater using limestone filter with Iron-Oxidized Bacteria. *International Journal of Environmental Science and Technology*, 17, 2667-2680.
- [61] **Alazaiza M.Y.D**, Copty, N., Abunada, Z (2020) Experimental investigation of cosolvent flushing of DNAPL in double-porosity media using light transmission visualization. *Journal of Hydrology*, 584, 124659.
- [62] **Alazaiza M.Y.D**, Ramli M., Copty N. Sheng T., Aburas M (2020) LNAPL Saturation Distribution under the Influence of Water Table fluctuating using Simplified Image Analysis Method. *Bulletin of Engineering Geology and the Environment*, 79, 1543-1554.
- [63] Aziz H., Shagr S., Akbar N., **Alazaiza M.Y.D** (2020) The removal efficiency of Iron and Manganese from pre-Ozonated groundwater using limestone filter. *Water Quality Research Journal*, 55, 167-183
- [64] **Alazaiza M.Y.D.**, Copty N., Ngien S., Bob M., Aburas M. (2019) Characterization of capillary pressure saturation relationship in double-porosity soil medium using light transmission visualization technique. *Transport in Porous Media*, 130, 513-528
- [65] Aziz H., Syed S.F, **Alazaiza M.Y.D** (2019) Optimization of Coagulation-Flocculation Process of Landfill Leachate by Tin (IV) Chloride Using Response Surface Methodology. *Avicenna Journal of Environmental Health Engineering*, 6, 41-48
- [66] **Alazaiza M.Y.D.**, Ngien S.K, Copty N., Bob M.M, Kamaruddin S.A (2019) Assessing the influence of infiltration on the migration of light non- aqueous phase liquid in double-porosity soil media using light transmission visualization method. *Hydrogeology Journal*, 27, 581-593
- [67] Aziz H., Yusoff M., **Alazaiza M.Y.D**, Rui L.M (2019) Potential use of palm oil trunk starch as coagulant and coagulant aid in semi-aerobic landfill leachate treatment. *Water Quality Research Journal*, 54, 203-219
- [68] Aziz H., Rahim A., Ramli S., **Alazaiza M.Y.D.**, Omar F., Hung Y (2018) Potential use of *Dimocarpus longan* Seeds as a flocculant in landfill leachate treatment. *Water*, 10, 1672
- [69] Aziz H., Puat A., **Alazaiza M.Y.D.**, Hung T (2018) Poultry slaughterhouse wastewater treatment using submerged fibers in attached growth sequential batch reactor. *International Journal of Environmental Research and Public Health*, 15, 1734
- [70] **Alazaiza M.Y.D.**, Ngien S.K, Bob M.M, Kamaruddin S.A, Ishak W.F (2018) Non-aqueous phase liquids distributions in three-fluid phase systems in double-porosity soil media: Experimental investigation using image analysis. *Groundwater for Sustainable Development*, 7, 133-142
- [71] **Alazaiza M.Y.D.**, Ngien S.K, Bob M.M, Ishak W.F, Kamaruddin S.A (2017) Influence of macro-pores on DNAPL migration in double-porosity soil. media using light transmission visualization technique. *Transport in Porous Media*, 117 (1), 103-123.
- [72] **Alazaiza M.Y.D.**, Ngien S.K, Bob M.M, Ishak W.F, Kamaruddin S.A (2017) Quantification

of dense non-aqueous phase liquid migration in double- porosity soil media using light transmission visualization technique. *Journal of Porous Media*, 20 (7), 590-606.

- [73] **Alazaiza M.Y.D.**, Ngien S.K, Bob M.M, Ishak W.F, Kamaruddin S.A (2016) A Review of Light Reflection and Transmission Methods in Monitoring Non- Aqueous Phase Liquid Migration in Porous Media. *APRN Journal of Engineering and Applied Sciences*, 11 (4), 2319- 2326.
- [74] **Alazaiza M.Y.D.**, Ngien S.K, Bob M.M, Ishak W.F, Kamaruddin S.A (2016) Investigation of Light Non-Aqueous Phase Liquid Migration in Single and Double-Porosity Soil Using Light Transmission Visualization Method (LTV). *MATEC Web of Conferences*, 47, 3023.
- [75] **Alazaiza M.Y.D.**, Ngien S.K, Bob M.M, Ishak W.F, Kamaruddin S.A (2015) An Overview of Photographic Methods Techniques in Monitoring Non- Aqueous Phase Liquid Migration in porous Medium. *Special Topics and Reviews in Porous Media – An International Journal*, 6 (4), 367-381.
- [76] **Alazaiza M.Y.D.**, Moghier, Y. (2013) Development of Desalinated Water Safety Plan (WSP) in Developing Countries. *International Journal of Environmental Engineering Science and Technology Research*, 1 (9),206 – 216.

BOOK

- [1] Eyvaz, M. Albahnasawi, A., **Alazaiza, M.Y.D.** (2023) Air Pollution - Latest Status and Current Developments. *IntechOpen*. DOI:10.5772/intechopen.104367, ISBN: 978-1-83768-917-0.

BOOK CHAPTER

- [1] Eyvaz, M., Albahnasawi, A., **Alazaiza, M.Y.D.** (2023). Introductory Chapter: Air Pollution – Understanding Its Causes, Effects, and Solutions. *IntechOpen*. Doi: 10.5772/intechopen.111588

CONFERENCE PROCEEDINGS

- [1] **Alazaiza, M.Y.D.** (2022) Experimental investigation of DNAPL removal using air sparging through light transmission visualization. The 4th Euro-Mediterranean Conference for Environmental Integration (EMCEI-2022) 1-4 November 2022, Sousse, Tunisia.
- [2] **Alazaiza, M.Y.D.**, Al Maskari, T. (2022) Source to Tap Water Quality Assessment in Drinking Water Supply System in Oman. *International Conference on Civil and Environmental Engineering 2022 Special Issue on Sustainable Environment and Communities* 28-30 August 2022, Penang, Malaysia.
- [3] Bashir, M.J.K, **Alazaiza, M.Y.D.** (2022) Effectiveness of Tannin as a Coagulant for Poultry Wastewater Treatment. *International Conference on Civil and Environmental Engineering 2022 Special Issue on Sustainable Environment and Communities* 28-30 August 2022, Penang, Malaysia.

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- [5] Tadza M., Mazelan N., Abdullah A., **Alazaiza M.Y.D.** (2020). Leaching characteristics of Red Gypsum under column and odometric conditions. International Symposium on Carbon and Functional Materials for Energy and Environments (CMEE 2020), 16-18 January, Sabah, Malaysia.
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RECOGNITION AND AWARDS

A'Sharqiyah University	Oman
Best Paper Award	2022,2023
Highly Cited Papers Award	2022
Best Researcher Award	2021,2023
International Conference of Sustainable Earth Resources Engineering	Malaysia
Best Presentation Award	2020
Universiti Malaysia Pahang	Malaysia
Ph.D. Graduate Research Scheme	2015-2018

Creation, Innovation, Technology & Research Exposition
Gold Medal

Malaysia
2016

International Festival Innovation on Green Technology
Gold Medal

Malaysia
2016

The 27th International Invention & Innovation Exhibition
Silver Medal

Malaysia
2016

TAUGHT COURSES

Hydrogeology and Groundwater Contamination; Hydraulics Engineering; Engineering Hydrology; Fluid Mechanics; Water and Wastewater Treatment; Water Resources Engineering; Solid Waste Management.

REFERENCES

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