

Madjid Delkash

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Professional Preparation

University of Delaware, PhD, Environmental Engineering, 2021

Sharif University of Technology, Tehran, Iran, M.Sc., Environmental Engineering, 2013

Sharif University of Technology, Tehran, Iran, B.Sc., Civil Engineering, 2011

Appointments

California Environmental Protection Agency (2019 - Present)

Water Resources Control Engineer

- Soil vapor and indoor air monitoring and remediation
- Evaluating flow recommendations provided by fisheries agencies or other sources relative to available water supplies, beneficial uses, demand, and other relevant factors.
- Evaluating hydrological, geological, environmental, water supply, and other potential effects of implementing flow recommendations as requirements, and prepare related documentation and recommendations.

Golder Associates Inc. (2017- 2019)

Civil Engineer

- Gas Collection and Control System (GCCS) design and maintenance
- Design leachate and landfill gas collection systems
- Conduct field investigations to support environmental and solid waste
- Drainage analysis
- Pyrite oxidation modeling
- Water balance analysis for landfills (HELP model)

Consulting Activities

April 2022 – Present

Project: Coupled Multi-Process Research for Reducing Landfill Emissions – Funding Agency: The Dutch Research Council (NWO), Consultant to the University of Delaware.

January 2022 – Present

Project: Assessing Diurnal Variations in Methane Emissions from Landfills and Impact on Whole Landfill Emission Estimates - Funding Agency: Environmental Research and Education Foundation, Consultant to the University of Delaware.

September 2021 – Present

Project: Characterizing Emissions from California Biomethane Facilities - Funding Agency: California Energy Commission, Consultant to the University of Delaware.

Academic Teaching Experience

Adjunct Professor

Fall 2022

Texas A & M University at San Antonio - Design of Wastewater Treatment Plants

Spring 2023

Texas A & M University at San Antonio - Food, Water, and Energy Nexus

Sacramento State University - Environmental Toxicology

Catholic University of America - Solid Waste Management

Peer-Reviewed Publications

1. Delkash, M., Chow, F.K., Imhoff, P.T., 2022. Diurnal landfill methane flux patterns across different seasons at a landfill in Southeastern US. *Waste Manage.* 144, 76-86.
2. Taylor, D.M., Chow, F.K., Delkash, M., Imhoff, P.T., 2018. Atmospheric modeling to assess wind dependence in tracer dilution method measurements of landfill methane emissions. *Waste Manage.* 73, 197-209.
3. Delkash, M., Al-Faraj, F.A., Scholz, M., 2018. Impacts of anthropogenic land use changes on nutrient concentrations in surface waterbodies: a review. *CLEAN–Soil, Air, Water* 46, 1800051.
4. Kamali, M., Delkash, M., Tajrishy, M., 2017. Evaluation of permeable pavement responses to urban surface runoff. *J. Environ. Manage.* 187, 43-53.
5. Nakhli, S.A.A., Delkash, M., Bakhshayesh, B.E., Kazemian, H., 2017. Application of zeolites for sustainable agriculture: a review on water and nutrient retention. *Water, Air, & Soil Pollution* 228, 1-34.
6. Taylor, D.M., Chow, F.K., Delkash, M., Imhoff, P.T., 2016. Numerical simulations to assess the tracer dilution method for measurement of landfill methane emissions. *Waste Manage.* 56, 298-309.
7. Delkash, M., Zhou, B., Han, B., Chow, F.K., Rella, C.W., Imhoff, P.T., 2016. Short-term landfill methane emissions dependency on wind. *Waste Manage.* 55, 288-298.
8. Delkash, M., Bakhshayesh, B.E., Kazemian, H., 2015. Using zeolitic adsorbents to cleanup special wastewater streams: A review. *Microporous and Mesoporous Materials* 214, 224-241.
9. Bakhshayesh, B.E., Delkash, M., Scholz, M., 2014. Response of vegetables to cadmium-enriched soil. *Water* 6, 1246-1256.
10. Delkash, M., Al-Faraj, F.A., Scholz, M., 2014. Comparing the export coefficient approach with the soil and water assessment tool to predict phosphorous pollution: the Kan watershed case study. *Water, Air, & Soil Pollution* 225, 1-17.

Conferences

1. 9th Intercontinental Landfill Research Symposium, Japan, June 2016.
2. 8th Intercontinental Landfill Research Symposium, Florida, October 2014.

