

**Sartaj, Majid, Ph.D., P.Eng.**

**Associate Professor, University of Ottawa**

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**Education:**

Ph.D. - Environmental Engineering, University of Ottawa, 2001.

M.A.Sc. - Environmental Engineering, University of Ottawa, 1994

B.A. - Civil Engineering, Shiraz University, Iran, 1990.

**Research Interests:**

Municipal and Industrial/Hazardous Solid Waste Management (Bioreactor Landfilling Technologies, Anaerobic Digestion, Renewable Natural Gas (RNG) production)

Management and Bioremediation of Contaminated Soils

Industrial Wastewater Treatment (Adsorption, Ion-Exchange, Chemical Precipitation, etc.)

Fate and Transport of Contaminants in Surface and Ground Water Resources

**Employment History:**

May 2016- Present	Associate Professor, Department of Civil Eng., University of Ottawa
July 2011- Apr 2016	Assistant Professor, Department of Civil Eng., University of Ottawa
Jan 2011 - May 2011	Part-time Instructor, Civil and Env. Eng. Dept., Carleton University
Sept 2003 - Dec 2010	Assistant Professor, Civil Eng., Isfahan Uni. of Tech., Iran.
Mar 2007- Dec 2010	Managing Director & Project Manager, Beh Azmoon Eng. Co., Iran.
Mar 2005 - Mar 2007	Project Manager, Kavak Consulting Engineers, Iran.
Sept 2000 - Aug 2001	Project Engineer, GPEC International, Ottawa, Canada

**Recent Publications (last 5 years):**

M Meskar, M Sartaj, JA Infante Sedano (2018), Optimization of Operational Parameters of Supercritical Fluid Extraction for PHCs Removal from a Contaminated Sand using Response Surface Methodology, J. of Environmental Chemical Engineering.

M Meskar, M Sartaj, JA Infante Sedano (2018), Assessment and Comparison of PHCs Removal from Three Types of Soils (sand, silt loam and clay) using Supercritical Fluid Extraction, Environmental Technology, 1-47.

D Hosseini, M Sartaj, R Delatolla (2018), Simultaneous anaerobic oxidation/partial nitrification-denitrification for cost-effective and efficient removal of organic carbon and nitrogen from highly polluted streams, Environmental Technology.

- AA Akindele, M Sartaj (2018), The toxicity effects of ammonia on anaerobic digestion of organic fraction of municipal solid waste, *Waste Management*, 71, 757–766.
- Alqaralleh, R.M., Kennedy, K., Delatolla, R., Sartaj, M., (2016), Thermophilic and hyper-thermophilic co-digestion of waste activated sludge and fat, oil and grease: Evaluating and modeling methane production, *Journal of Environmental Management*, 183, Part 3, 551–561.
- Ding, Y., Sartaj, M (2016), Statistical Analysis of Thermal and Non-Thermal effects of Sequential Microwave/Aeration Process for the Removal of Ammonia from Aqueous Solution, *Intl. J. of Environ. Sci. Technol.*, 13:985–994.
- Dong, S., Sartaj, M (2016) Statistical Analysis and Optimization of Ammonia Removal from Landfill Leachate by Sequential Microwave/Aeration Process Using Factorial Design and Response Surface Methodology, *J. of Environmental Chemical Engineering* 4, 100–108.
- Arabgol, R., Sartaj, M., Asghari, K (2016), Predicting nitrate concentration and its spatial distribution in groundwater resources using support vector machines (SVMs) model, *Environmental Modeling and Assessment*, 21:71–82.
- Dong, S., Sartaj, M (2015), Statistical analysis of thermal and non-thermal effects of sequential microwave/aeration process for the removal of ammonia from aqueous solution, *Desalination and Water Treatment*. 57, 20005-20015.
- Ara, E., Sartaj, M., Kennedy, K., (2015), Enhanced Biogas Production by Anaerobic Co-digestion from a Ternary Mix Substrate over a Binary Mix Substrate, *Waste Management Research*. 33 (6) 578-587.
- Ahmadifar, M., Sartaj, M., Abdallah, M (2015), Investigating the Performance of Aerobic, Semi-Aerobic and Anaerobic Bioreactor Landfills for MSW Management in Developing Countries, *Journal of Material Cycles and Waste Management*, 18.
- Ding, Y., Sartaj, M (2015) "Statistical analysis and optimization of ammonia removal from aqueous solution by zeolite using factorial design and response surface methodology", *Journal of Environmental Chemical Engineering*, 3, 807–814.
- Sartaj, M., Arabgol, R. (2015), Assessment of Healthcare Waste Management Practices and Associated Problems in Isfahan Province (Iran), *J. of Material Cycles and Waste Management*, 17 (1), 99-106.
- Ara, E., Sartaj, M., Kennedy, K., (2014) "Effect of Microwave Pre-Treatment of Thickened Waste Activated Sludge on Biogas Production from Co-Digestion of Organic Fraction of Municipal Solid Waste, Thickened Waste Activated Sludge and Municipal Sludge", *Waste Management Research*, 32 (12), 1200-1209.
- Nair, A., Sartaj, M., Kennedy, K., Coelho, N.M.G., (2014) "Enhancing biogas production from anaerobic biodegradation of the organic fraction of municipal solid waste through leachate blending", *Waste Management Research*, 32 (10), 939-946.
- Black, R., Sartaj, M., Mohammadian, A., Qiblawey, H., (2014) "Biosorption of Pb and Cu Using Fixed and Suspended Bacteria", *J. of Environmental Chemical Engineering*, 2 (3), 1663-1671.
- Sartaj, M., Arabgol, R. (2014) "Quantitative Assessment and Statistical Analysis of Medical Waste Generation in Developing Countries: A case study in Isfahan (Iran)", *Iranian J. of Science and Technology*, 38 (C2), 409-420.
- Gomez, F., Sartaj, M. (2014) "Optimization of Field Scale Biopiles for Bioremediation of Petroleum Hydrocarbon Contaminated Soil at Low Temperature Conditions by Response Surface Methodology (RSM)", *International Biodeterioration and Biodegradation*, 89, 103-109.
- Abdallah M., Kennedy K., Narbaitz R., Warith M., Sartaj M. (2014) "Influence of supplemental heat addition on performance of pilot-scale bioreactor landfills", *Bioprocess and Biosystems Engineering*, 37, 301-310.