POLYTECHNIQUE MONTRÉAL
UNIVERSITÉ D'INGÉNIERIE

Ali Khazraei, PhD, MBA
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Education

Concordia University, Montreal, QC, Canada (2019)
MBA, John Molson School of Business

Concordia University, Montreal, QC, Canada (2014)
Ph.D., Civil engineering (Environmental)
Thesis: "Predicting the performance of activated carbon filters at low concentrations using accelerated test data"

Sharif University of Technology, Tehran, Iran (2009)
M.Sc., Chemical engineering (Biotechnology)
Thesis: "Experimental and modeling analysis of a laboratory-scale dual-chamber microbial fuel cell"

Sharif University of Technology, Tehran, Iran (2007)
B.Sc., Chemical engineering
Thesis: "Investigation of the economic and technological application of instrumented pig in oil and gas industry"

Research Interests

- Mineral Extraction and Process Intensification
- Chemical Process Design and Optimization
- Indoor Air Quality Improvement
- Microbial Fuel Cell Wastewater Treatment
- Process Safety and Environmental Protection
- Green Building Design
- Sustainable Management
- Project Management and Data Analytics

Work Experience

• Impact Global Solutions Inc., Delson, QC	Solutions Manager	(2020)
• Pratt & Whitney Canada, Longueuil, QC	Business Analyst	(2019)
• Martin Brower Company L.L.C., Baie-d'Urfé, QC	Process Quality Analyst	(2018)

Teaching Experience

• Engineering and Business undergraduate courses	Concordia University	(2010-2019)
• Chemical Engineering undergraduate courses	Sharif University	(2005-2009)

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Journal Publications

• **Khazraei, A.**, Haghighat, F., Lee, C.S., Kholafaei H., "Evaluation of Gas-Phase Filter Performance for a Mixture Gas", CLEAN–Soil, Air, Water 43 (4) 463-620 (2015)·

• **Khazraei, A.**, Haghighat, F. "Modeling of Gas-Phase Filter for High- and Low-Challenge Gas Concentrations", Building and Environment, 2014; 80:192-203.

• **Khazraei, A.**, Haghighat, F., Lee, C.S. "Gas-phase filters breakthrough models at low concentration - Effect of relative humidity", Building and Environment, 2014; 75:1-10.

• **Khazraei, A.**, Haghighat, F., Lee, C.S. Predicting gas-phase air-cleaning system efficiency at low concentration using high concentration results: Development of a framework, Building and Environment, 2013; 68:12-21.

• **Khazraei, A.**, Kariminia H., Yaghmaei S., "Prediction of Electricity Generation in a Dual Chamber MFC (Microbial Fuel Cell)", IAChE, 2012; 9(1):3-11.

Conference Publications

• **Khazraei, A.**, Haghighat, F., "The comparison between kinetic theory and mass transfer models to predict the service life of activated carbon filters in removing VOCs", Poster/Short Oral Presentation, Indoor Air 2016, July 3-8, Ghent, Belgium.

• **Khazraei, A.**, Haghighat, F., McKay.G. "New Developed Framework for Breakthrough Curve Prediction at Typical Indoor Levels of Concentration and Relative Humidity", Oral Presentation, Indoor Air 2014, July 7-12, HongKong.

• **Khazraei, A.**, Haghighat, F., McKay.G. "Modelling Comparison of Relative Performance of Gas-Phase Filter at High and Low Challenge Concentration", Oral Presentation, Indoor Air 2014, July 7-12, HongKong.

• **Khazraei, A.**, Haghighat, F. "Evaluation of Gas-Phase Filter Performance for a Mixture of Gases", Oral Presentation, International Sustainable Built Environment Conference (ISBE 2014), January 28-30, Doha, Qatar.

• **Khazraei, A.**, Kholafaei, H., Haghighat, F., Lee, C.S., (2011), "The Effect of Relative Humidity Level, VOC Type and Multiple VOCs on the Performance of Full-Scale GAC Filters", Oral Presentation, Indoor Air 2011, June 5-10, Austin, TX, USA.