

# CURRICULUM VITAE

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## UNIVERSITY EDUCATION

- 1994-1998 Ph.D. in Chemical Engineering  
Department of Chemical Engineering and Applied Chemistry, University of Toronto
- 1992-1994 Masters of Applied Science (M.A.Sc.) in Chemical Engineering  
Department of Chemical Engineering and Applied Chemistry, University of Toronto
- 1985-1990 Bachelor of Science (B.Sc.) in Chemical Engineering  
Department of Chemical Engineering, Amirkabir University of Technology  
Tehran, Iran

## RESEARCH INTERESTS

- UV based technologies for water treatment and purification
- Advanced water and wastewater treatment processes
- Electrochemical water treatment processes
- NOM characterization and removal
- Removal of arsenic and manganese from groundwater supplies
- Brackish water treatment
- Synthesis and application of nano-photocatalysts for the degradation of organic compounds

## FUNDING ORGANIZATIONS

- **Government (total funding received: ~\$15,000,000):** Natural Science and Engineering Research Council of Canada (NSERC); Canada Foundation for Innovation (CFI); Indigenous and Northern Affairs Canada (INAC); BC Ministry of Community, Sports, & Cultural Development; Canadian Water Network (CWN); IC-IMPACTS NCE, City of White Rock, Comox Valley Regional District
- **Industry (total funding received: ~\$2,600,000):** Trojan Technologies; BI Pure Water Inc.; NORAM Engineers and Contractors; Trittech Group; Urban Systems; HealthSpace Informatics; Opus DaytonKnight
- **Foundation (funding received: \$450,000):** Peter Wall Institute for Advanced Studies (PWIAS)

**AWARDS AND DISTINCTIONS**

- 2016 Peter Wall Scholar for the 2016-2016 academic year, to promote interdisciplinary research in area of water quality.
- 2015 Water's Next Award – Academic Category; Presented by Water Canada Magazine to acknowledge the achievements and ideas of individuals who successfully work to change water in Canada by making safe, healthy water resources a priority.  
*Selection Committee's statement: Mohseni dedicates his energies to serving the unique sociocultural, economic, and technological challenges faced by Canada's small, rural, and First Nations communities when it comes to producing clean drinking water*
- 2012 Award of Excellence in Water and Waste Community – BC Water and Waste Association (BCWWA)  
*Recognizing the work and research towards advancing excellence in the water and waste community*
- 2012 Erudite Scholar-in-Residence, Mahatma Gandhi University, Kottayam, India  
*For international recognition in carrying out high quality research in the field of advanced water treatment and the application of UV-based advanced oxidation to improving the quality of drinking water. The award funded a series of lectures and presentations at Mahatma Gandhi University in Kottayam in India.*
- 2012 Second Place, Best Student Poster Award to PhD Advisee Reza Rezaei, Canadian Water and Wastewater Association (CWWA) National Drinking Water Conference, Kelowna, BC
- 2011 First Place, Best Student Presentation Award to PhD Advisee Devendra Borikar, International Ozone Association (IOA) Conference, Toronto, ON
- 2004-2005 Teaching Development Scholarship, University of British Columbia
- 1998 Ontario Ministry of Environment Award of Excellence in Research & Technology Development
- 1995-1998 University of Toronto Open Fellowship
- 1997 TAPPI Outstanding Student Chapter Member Award
- 1996 D.A.I. Goring Award for the best presentation at the 4<sup>th</sup> Graduate Student Research Conference at the Pulp & Paper Centre, University of Toronto
- 1996 Graduate Student Leadership Award at the Pulp & Paper Centre, University of Toronto
- 1996 Best Student Poster Award in the Ph.D. category at the 89<sup>th</sup> Air & Waste Management Association Annual Meeting
- 1994-1996 Differential Fee Waiver Scholarship, University of Toronto

## NOTABLE SCHOLARLY SERVICES AND ACTIVITIES

### *Service to scholarly centres / societies /committees*

- 2008 - Scientific Director, RES'EAU-WaterNET NSERC Strategic Network
- 2015 - Member of the Science Advisory Committee (SAC); DeRISK – EPA National Center for Innovation in Small Water Systems
- 2015 - Member of the Science Advisory Committee (SAC); WINSSS – EPA National Center for Innovation in Small Water Systems
- 2013 - Member of the Research Management Committee (RMC); IC-IMPACTS NCE
- 2013 - Director of Publications, Canadian Society of Chemical Engineering (CSCHE)
- 2012 Member of CEAB visit to evaluate “Green Engineering Program” at the University of Western Ontario, January 28-31.
- 2011- Member of the Small Water System Committee, BC Water & Waste Association (BCWWA)
- 2009-12 Associate Head for Graduate Studies, Dept of Chemical & Biological Eng., UBC
- 2002-03 Member of the Student Affairs Committee, Air & Waste Management Association (AWMA)
- 2002-03 Vice Chair of the University/College Education Committee, Air & Waste Management Association (AWMA)
- 1998-00 Member of the Industrial Catalysis Technical Committee, Environmental Science & Technology Alliance of Canada (ESTAC)

### *Conferences and workshops*

- 2016 Chair and organizer, RES'EAU-WaterNET Annual meeting, April 30-May 1, Whistler, BC. *Over 75 delegates from academia, industry, government, and professional organizations, from across Canada and USA, participated in the event.*
- 2015 Chair and organizer, RES'EAU-WaterNET Annual meeting, May 26-27, Kelowna, BC. *Over 80 delegates from academia, industry, government, and professional organizations, from across Canada and USA, participated in the event.*
- 2015 Co-lead and session chair, “Small and Aboriginal Communities: Solutions that Fit” *Canadian Water Network Conference*, Connecting Water Resources, March 10-12, Ottawa, ON.
- 2014 Chair and organizer, RES'EAU-WaterNET Annual meeting, May 29-30. Whistler, BC. *Over 75 delegates from academia, industry, government, and professional organizations participated in the event.*
- 2013 Chair and organizer, Biennial Knowledge Transfer Workshop and Joint RES'EAU IMPACT and First Nations Water and Wastewater Conference, Oct. 2-3. Vancouver, BC. *Over 250 delegates from First Nations communities, as well as from academia, industry, government, and professional organizations participated in the event.*
- 2012 Chair, Technical Program, Canadian Chemical Engineering (CSCHE) Conference, Oct. 14-17.
- 2012 Session organizer, Assembly of First Nations (AFN) National Drinking Water Conference, Edmonton, AB, Mar. 6-7.
- 2011 Chair and organizer, Biennial Knowledge Transfer Workshop "Big Value in Small Systems" Oct. 4-6. Vancouver, BC. *90 delegates from academia, industry, government, and professional organizations.*

- 2011 Member of International Organizing Committee, 17<sup>th</sup> International Conference on Advanced Oxidation Technologies, September 2011, San Diego, CA, USA
- 2011 Session Chair, 61<sup>st</sup> Canadian Chemical Engineering Conference, London, Ontario
- 2010 Chair and organizer, "Water: The Life of a Community: a workshop on aboriginal water health", October 20-21, 2010, UBC First Nations Longhouse, Vancouver, BC. about 60 delegates from academia, industry, government, and First Nations Communities participated in the event.
- 2009 Chair and organizer, Knowledge transfer workshop on "clear thinking on safe drinking water for small and rural communities", October 1-2, 2009, Toronto, ON. 85 delegates from academia, industry, government, and professional organizations.
- 2009 Keynote speaker, 15<sup>th</sup> International Conference on Advanced Oxidation Technologies, October 5-8 2009, Niagara Falls, NY, USA
- 2009 Session Chair, 15<sup>th</sup> International Conference on Advanced Oxidation Technologies, Niagara Falls, NY, USA
- 2009 Session Chair, 8<sup>th</sup> World Congress of Chemical Engineering, Montreal, BC
- 2009 Member of International Organizing Committee, 15<sup>th</sup> International Conference on Advanced Oxidation Technologies, October 2009, Niagara Falls, NY, USA
- 2008 Session Chair, Canadian Chemical Engineering Conference, Ottawa, ON
- 2007 Member of International Organizing Committee, 13<sup>th</sup> International Conference on Advanced Oxidation Technologies, September 2007, Niagara Falls, NY, USA
- 2006 Member of International Organizing Committee, 12<sup>th</sup> International Conference on Advanced Oxidation Technologies, September 2006, Pittsburgh, PA
- 2006 Member of International Program Committee, the 2<sup>nd</sup> IASTED International Conference on "Advanced Technology in the Environmental Field (ATEF 2006)", Lanzarote, Canary Islands, Spain.
- 2005 Member of International Organizing Committee, 11<sup>th</sup> International Conference on Advanced Oxidation Technologies, October 2005, Chicago, IL
- 2004 Session Chair, 9<sup>th</sup> International Conference on TiO<sub>2</sub> Photocatalysis, San Diego, CA
- 2002 Environmental Sessions Coordinator, 52<sup>nd</sup> CSChE Conference, October 20-23, Vancouver, BC
- 2002 Session Chair, 7<sup>th</sup> International Conference on TiO<sub>2</sub> Photocatalysis, Toronto, ON
- 2002 Session Co-chair, 52<sup>nd</sup> Canadian Chemical Engineering Conference, Vancouver, BC
- 1995 Co-Chair, 3<sup>rd</sup> Graduate Student Research Conference, Pulp & Paper Centre, University of Toronto

## **PUBLICATIONS**

### **REFEREED JOURNAL PUBLICATIONS**

1. Cataldo Hernández, M.A., May, A., Bonakdarpour, A., **Mohseni, M.**, Wilkinson, D.P. (2016) “Analytical Quantification of Electrochemical Ferrates for Drinking Water Treatments” *Canadian J. of Chemistry* (accepted).
2. Rezaei, R. and **Mohseni, M.** (2016) “Impact of natural organic matter on the degradation of 2,4-dichlorophenoxy acetic acid in a fluidized bed photocatalytic reactor” *Chemical Engineering Journal* (in print), doi: 10.1016/j.cej.2016.05.086.
3. Kai, S., **Mohseni, M.**, and Taghipour (2016) “Application of ultraviolet light-emitting diodes (UV-LEDs) for water disinfection: A review” *Water Research*, **94**: 341-349.
4. McBeath, S., Dubrawski, K., **Mohseni, M.**, and Wilkinson, D.P. (2016) “Pilot scale iron electrocoagulation for natural organic matter removal” *Journal of Water Management and Research*, (in print).
5. Bazri, M., Sarathy, Siva, and **Mohseni, M.** (2016) “Enhancement of UV/H<sub>2</sub>O<sub>2</sub> Efficacy Using Strong Basic Ion Exchange Resins” *J. of American Water and Wastewater Association (JAWWA)*, **108**(6): E318-E326.
6. Bazri, M., and **Mohseni, M.** (2016) “Pretreatment of natural organic matter to control biological stability” *Environmental Science: Water Research & Technology*, **2**: 298-303.
7. Kazemi, S., K. Fatih, **M. Mohseni** (2016) “A Systematic Study of Separators in Air-Breathing Flat-Plate Microbial Fuel Cells—Part 1: Structure, Properties, and Performance Correlations” *Energies*, **9**, doi: 10.3390/en9020078.
8. Kazemi, S., M. Barazandegan, K. Fatih, **M. Mohseni** (2016) ““Systematic Study of Separators in Air-Breathing Flat-Plate Microbial Fuel Cells—Part 2: Numerical Modeling” *Energies*, **9**, doi: 10.3390/en9020079.
9. Bazri, M., B. Barbeau, and **Mohseni, M.** (2016) “Evaluation of weak and strongly basic anion exchange resins for NOM removal” *ASCE J. Environ. Eng.*, (in print).
10. Bazri, M. and **Mohseni, M.** (2016) “Impact of Natural Organic Matter Properties on the Kinetics of Suspended Ion Exchange Process” *Water Research*, **91**, 147-155.
11. Bazri, M., Martijn, B., Kroesbergen, J. and Mohseni, M. (2015) “Impact of Anionic Ion Exchange Resins on NOM Fractions: Effect on N-DBPs and C-DBPs Precursors” *Chemosphere* **144**, 1988-1995.
12. Gagnon, G., Krkosek, W., Anderson, L., McBean, E., **Mohseni, M.**, Bazri, M. and Mauro, I. (2015) “Impacts of hydraulic fracturing on water quality: a review of literature, regulatory frameworks, and an analysis of information gaps” *Environ. Review*, 10.1139/er-2015-0043.
13. Bagheri, M., and **M. Mohseni** (2015) “Impact of hydrodynamics on pollutant degradation and energy efficiency of VUV/UV and H<sub>2</sub>O<sub>2</sub>/UV oxidation processes” *J. of Environmental Management* **164**:114-120. doi: 10.1016/j.jenvman.2015.08.024.

14. Bagheri, M., **M. Mohseni** (2015) "A study of enhanced performance of VUV/UV process for the degradation of micropollutants from contaminated water" *J. Hazardous Materials* 294: 1-8.
15. Dubrawski, K.L., C.M. van Genuchten, C. Delaire, S.E. Amrose, A. J. Gadgil, **M. Mohseni** (2015). "Production and Transformation of Mixed-Valent Nanoparticles Generated by Fe(0) Electrocoagulation" *Environ. Sci. Technol.*, 49(4):2171-2179. DOI: 10.1021/es505059d.
16. Duran HE, **M. Mohseni**, F. Taghipour (2015) "Computational modeling of UV photocatalytic reactors: model development, evaluation, and application" *Water Quality Research J. Canada* 50(1): 21-33.
17. Borikar, D., **M. Mohseni**, S. Jasim (2015) "Evaluation of conventional, ozone, and UV/H<sub>2</sub>O<sub>2</sub> for removal of emerging contaminants and THM-FPs" *Water Quality Research J. Canada*, **50**(2): 140-151. DOI:10.2166/wqrjc.2014.018.
18. Borikar, D., **M. Mohseni**, S. Jasim (2015) "Evaluation and comparison of conventional, and advanced oxidation processes for the removal of PPCPs and EDCs and their effect on THM-formation potentials" *Ozone Science & Engineering* (accepted).
19. Kazemi, S., K. Fatih, **M. Mohseni** (2015) "Improved performance of a passive air breathing flat-plate microbial fuel cell" *Canadian J. Chemical Engineering* **93**(3):479-485.
20. Bagheri, M., **M. Mohseni** (2014) "Computational fluid dynamics (CFD) modeling of VUV/UV photoreactors for water treatment" *Chemical Eng. Journal* **256**: 51-60.
21. Kazemi, S., K. Fatih, **M. Mohseni** (2014) "Passive air breathing flat-plate microbial fuel cell operation" *Journal of Chemical Technology and Biotechnology* **90**(3):468-475.
22. Dubrawski, K.L., C. Du, **M. Mohseni** (2014). "General Potential-Current Model and Validation for Electrocoagulation" *Electrochimica Acta*, **129**: 187-195.
23. Imoberdorf, G., **M. Mohseni** (2013) "Comparative Study of the Effect of Vacuum-UV Irradiation on Natural Organic Matter of Different Sources" *Journal of Environmental Engineering* 10.1061/(ASCE)EE.1943-7870.0000804.
24. Duca, C., G. Imoberdorf, **M. Mohseni** (2013) "Novel collimated beam setup to study the kinetics of VUV-induced reactions" *Photochemistry and photobiology* 90(1): 238-240.
25. Dubrawski, K.L. and **M. Mohseni** (2013) "In-situ identification of iron electrocoagulation speciation and application for natural organic matter (NOM) removal" *Water Research* 47(14): 5371-5380.
26. Sedaghatvand, R., M.N. Esfahany, T. Behzad, **M. Mohseni**, and M.M. Marandpour (2013) "Parameter estimation and characterization of a single-chamber microbial fuel cell for dairy wastewater treatment" *Bioresource Technology* 146: 247-253.
27. Duca, C., G. Imoberdorf, **M. Mohseni** (2013) "Synthesis, characterization, and comparison of sol-gel TiO<sub>2</sub> immobilized photocatalysts" *International Journal of Chemical Reactions* 11(2): 633-639.
28. Dubrawski, K.L. and **M. Mohseni** (2013) "Standardizing Electrocoagulation Reactor Design: Iron Electrodes for NOM Removal" *Chemosphere* 91(1): 55-60.

29. Bazri M, **Mohseni M** (2013) "A Rapid Technique for Assessing Assimilable Organic Carbon of UV/H<sub>2</sub>O<sub>2</sub> Treated Water" *J. Environmental Science and Health, Part A* 48(9): 1086-1093.
30. Dubrawski, K.L., M. Fauvel, and **M. Mohseni** (2013) "Metal type and natural organic matter source for direct filtration electrocoagulation of drinking water" *J. Hazardous Materials* **244-245**: 135-141.
31. Bazri M, B. Barbeau, and **M. Mohseni** (2012) "Impact of UV/H<sub>2</sub>O<sub>2</sub> advanced oxidation treatment on molecular weight distribution of NOM and biostability of water" *Water Research* **46**(16): 5297-5304.
32. Imoberdorf, G.E. and **M. Mohseni** (2012) "Kinetic study and modeling of the vacuum-UV photoinduced degradation of 2,4-D" *Chemical Engineering Journal* **187**: 114-122.
33. Sarathy, S., M. Stefan, A. Royce, and **M. Mohseni** (2011) "Pilot-scale UV/H<sub>2</sub>O<sub>2</sub> advanced oxidation for water treatment and downstream biological treatment: Effects on natural organic matter characteristics and DBP formation" *Environmental Technology* **32**(15): 1709-1718.
34. Vega, A., G. Imoberdorf, and **M. Mohseni** (2011) "Photocatalytic degradation of 2,4-Dichlorophenoxyacetic acid in a fluidized bed photoreactor with composite template-free TiO<sub>2</sub> photocatalyst" *Applied Catalysis A: General* **405**: 120-128.
35. Sarathy, S., M. Bazri, and **M. Mohseni** (2011) "Modeling the transformation of chromophoric natural organic matter during UV/H<sub>2</sub>O<sub>2</sub> advanced oxidation" *J. of Environmental Engineering* **137**(10): 903-912.
36. Vega, A., M. Keshmiri, and **M. Mohseni** (2011) "Composite template-free TiO<sub>2</sub> photocatalyst: Synthesis, characteristics and photocatalytic activity" *Applied Catalysis B: Environmental*, **104**(1-2): 127-135.
37. Imoberdorf, G. and **M. Mohseni** (2011) "Modeling of the Photo-induced Degradation of Formic Acid in the Vacuum-UV Process" *Chem. Eng. Sci.* **66**(6): 1159-1167.
38. Imoberdorf, G.E. and **M. Mohseni** (2011) "Experimental study of the degradation of 2,4-D induced by vacuum-UV irradiation" *Water Sci. Technol.* **63**(7): 1427-1433.
39. Duran, E., F. Taghipour, and **M. Mohseni** (2011) "Design improvement of immobilized photocatalytic reactors using a CFD-Taguchi combined method" *Industrial Chem. Eng. Res.* **50**(2): 824-831.
40. Duran, J.E., F. Taghipour, and **M. Mohseni** (2011) "Evaluation of model parameters for simulating TiO<sub>2</sub> coated UV reactor" accepted for publication in *Water Science and Technology: Water Supply*. **63**(7): 1366-1376.
41. Imoberdorf, G. and **M. Mohseni** (2011) "Degradation of Natural Organic Matter in Surface Water Using Vacuum-UV Irradiation" *J. Hazardous Materials* **186**(1): 240-246.
42. Duran, E., **M. Mohseni**, and F. Taghipour (2011) "CFD modeling of immobilized photocatalytic reactors used for water treatment" *AIChE Journal* **57**(7): 1860-1872.
43. Duran, E., F. Taghipour, and **M. Mohseni** (2010) "Irradiance modeling in annular photoreactors using the finite-volume method" *J. Photochemistry and Photobiology*, **215**(1): 81-89.

44. Sarathy, S. and **M. Mohseni** (2010) "Effects of UV/H<sub>2</sub>O<sub>2</sub> advanced oxidation on chemical characteristics and chlorine reactivity of surface water natural organic matter" *Water Research* **44** (4087-4096).
45. Vega, A., G. Imoberdorf, M. Keshmiri, **M. Mohseni** (2010). "Novel composite photocatalyst made of TiO<sub>2</sub> nanoparticles". *Water Science and Technology* **61**(4): 903-909.
46. Duran, J.E., **M. Mohseni**, F. Taghipour (2010) "Modeling of annular reactors with surface reaction using computational fluid dynamics (CFD)" *Chem. Eng. Sci.*, **65**(3): 1201-1211.
47. Sarathy, S. and M. Bazri, and **M. Mohseni** (2009). "A kinetic model for the degradation of natural organic matter during the ultraviolet hydrogen peroxide advanced oxidation process" *IUVA News*, International UV Association, **11**(4): 16-20.
48. Duran, J.E., F. Taghipour, and **M. Mohseni** (2011) "Evaluation of model parameters for simulating TiO<sub>2</sub> coated UV reactor" accepted for publication in *Water Science and Technology: Water Supply*. **63**(7): 1366-1376.
49. Karimi, A., F. Vahabzadeh, **M. Mohseni**, M. Mehranian (2009) "Decolorization of Maxilon-Red by Kissiris Immobilized *Phanerochaete Chrysosporium* in Trickle Bed Bioreactor-Involvement of Lignolytic Enzymes" *Iran. J. Chem. Chem. Eng.* **28**(2).
50. Duran, J.E., F. Taghipour, **M. Mohseni** (2009) "CFD modeling of mass transfer in annular reactors" *International Journal of Heat and Mass Transfer*, **52**(23-24): 5390-5401.
51. Moussavi, G., M.B. Bahadori, M. Farzadkia, A. Yazdanbakhsh, **M. Mohseni** (2009) "Performance Evaluation of a Thermophilic Biofilter for the removal of MTBE from Waste Air Stream: Effects of Inlet Concentration and EBRT" *Biochemical Engineering Journal*, **45**: 152-156.
52. Sarathy, S. and **M. Mohseni** (2009) "The fate of natural organic matter during UV/H<sub>2</sub>O<sub>2</sub> advanced oxidation of water" Accepted to *Journal of Environmental Engineering and Science*, published in *Canadian Journal of Civil Engineering* **36**(1): 160-169.
53. Ahmadi, M., **M. Mohseni**, F. Vahabzadeh (2008) "Study on trend of biodegradability of phenolic compounds during photo-Fenton advanced oxidation process" *Iranian J. Chemical Engineering*, **5**(4): 23-32.
54. Chowdhury F.L., P.R. Bérubé, and **M. Mohseni** (2008) "Ozonation and its Effects on NOM Characteristics and Disinfection By-product Formation" *Ozone Sci. Eng.* **30**(5), 321-331.
55. **Imoberdorf, G.**, F. Taghipour, M. Keshmiri, **M. Mohseni** (2008) "Predictive radiation field modeling for fluidized bed photocatalytic reactors" *Chem. Eng. Sci.* **63**(16): 4228-4238.
56. Medeiros, D., Pires, E.C., **M. Mohseni** (2008) "Ozone Oxidation of Pulp and Paper Wastewater and its Impact on Molecular Weight Distribution of Organic Matter" *Ozone Sci. & Eng.* **30**(1): 105-110.
57. Moussavi, G.R., K. Naddafi, A. Mesdaginia, **M. Mohseni**. (2008) "Effectiveness of Hydrogen Peroxide in H<sub>2</sub>S Removal by a Packed High Specific Surface Area Bed Scrubber" *Chemical & Biochemical Engineering Quarterly*, **22**(1): 9-14.

58. Bijan, Leila and **Madjid Mohseni**. (2008) "Novel Membrane Pretreatment to Increase the Efficiency of Ozonation-Biooxidation of Pulp Mill Effluent" *Environ. Eng. Sci.* **25**(2): 229-238.
59. **Mohseni, M.** and Lizbeth Prieto. (2008) "Biofiltration of Hydrophobic VOCs Pretreated with UV Photolysis and Photocatalysis" *International J. Environ. Technol. Manag.* (in press).
60. Sarathy, S. and **M. Mohseni** (2007) "The Impact of UV/H<sub>2</sub>O<sub>2</sub> Advanced Oxidation on Molecular Size Distribution of Chromophoric Natural Organic Matter" *Environ. Sci. Technol.* **41**(24): 8315-8320.
61. Toor, Ramn and **Madjid Mohseni**. (2007) "UV-H<sub>2</sub>O<sub>2</sub> Based AOP and its Integration with Biological Activated Carbon Treatment for DBP Reduction in Drinking Water" *Chemosphere*, **66**: 2087-2095.
62. Moussavi, R. and **Madjid Mohseni**. (2007) "Using UV Pretreatment to Enhance Biofiltration of Mixtures of Aromatic VOCs" *J. Hazardous Materials*, **144**(1-2): 59-66.
63. Sarathy, Siva and **M. Mohseni** (2006). "An overview of UV-based advanced oxidation processes for drinking water treatment" *IUVA News*, International UV Association, **8**(2): 16-27.
64. **Mohseni, M.** and Joy L. Zhao. (2006) "Coupling Ultraviolet Photolysis and Biofiltration for Enhanced Degradation of Aromatic Air Pollutants" *J. of Chemical Technology and Biotechnology*, **81**(2):146-151.
65. Keshmiri, M., T. Troczynski, and **M. Mohseni**. (2006) "Oxidation of Gas Phase TCE and Toluene using TiO<sub>2</sub> Composite Sol-Gel Photocatalyst" *J. of Hazardous Materials*, **128**(2-3):130-137.
66. Bijan, Leila and **Madjid Mohseni**. (2005) "Integrated Ozone Oxidation and Biological Treatment of Pulp Mill Effluent and its Effects on Biodegradability and Molecular Weight Distribution of Organic Compounds" *Water Research*, **39**: 3763-3772.
67. Lee, Man-Sig, Seong-Soo Hong, **Madjid Mohseni**. (2005) "Synthesis of Nanosized TiO<sub>2</sub>-Ag Particles by One-Step Process Using the Sol-Gel Method and their Photocatalytic Activity" *Journal of Molecular Catalysis*, **242**(1-2):135-140.
68. Taghipour, Fariborz and **Madjid Mohseni**. (2005) "Computational Fluid Dynamics (CFD) Simulation of UV Photocatalytic Reactor for Air Treatment" *AICHE Journal*, **51**(11):3039-3047.
69. **Mohseni, Madjid**; (2005) "Gas Phase Trichloroethylene (TCE) Photooxidation and Byproduct Formation: Photolysis vs. Titania/Silica based Photocatalysis" *Chemosphere*, **59**: 335-342.
70. **Mohseni, M.** L.H. Koh, D. Kuhn, and D.G. Allen; (2005) "Ultraviolet Photooxidation for the Biodegradability Enhancement of Airborne o-xylene" *Journal of Environmental Engineering and Science*, **4**(4):279-286.
71. Keshmiri, M., **M. Mohseni** and T. Troczynski; (2004) "Development of Novel TiO<sub>2</sub> Sol-Gel Derived Composite and its Photocatalytic Activities for Trichloroethylene (TCE) Oxidation" *Applied Catalysis, B: Environmental*, **53**: 209-219.
72. Bijan, L. and **M. Mohseni**; (2004) "Using Ozone to Reduce Recalcitrant Compounds and to Enhance Biodegradability of Pulp and Paper Effluents" *Water Science & Technology*, **50**(3): 173-182.

73. Suh, J.H. and **M. Mohseni**; (2004). "A Study on the Relationship between Biodegradability Enhancement and Oxidation of 1,4-Dioxane using Ozone and Hydrogen Peroxide" *Water Research*, **38**(10): 2596-2604.
74. **Mohseni, M.** and F. Taghipour; (2004). "Experimental and Computational Analysis of Annular Photocatalytic reactor for Gas Phase Vinyl Chloride (VC) Oxidation" *Chemical Engineering Science*, **59**(7): 1601-1609.
75. Koh, L.H., D. Kuhn, **M. Mohseni**, and D.G. Allen; (2004). "Using Ultraviolet Photooxidation as a Pretreatment of Volatile Organic Compounds Upstream of a Biological Gas Cleaning Operation" *J. Chemical Technology and Biotechnology*, **79**(6): 619-625.
76. **Mohseni, Madjid** and Arnoud David; (2003). "Gas Phase Vinyl Chloride (VC) Oxidation using TiO<sub>2</sub> based Photocatalysis" *Applied Catalysis B: Environmental*, **46**(2): 219-226.
77. **Mohseni, Madjid** and D. Grant Allen; (2000). "Biofiltration of Mixtures of Hydrophilic and Hydrophobic Volatile Organic Compounds" *Chemical Engineering Science*, **55**(9): 1545-1558.
78. **Mohseni, Madjid** and D. Grant Allen; (1999). "Transient Performance of Biofilters Treating Mixtures of Hydrophilic and Hydrophobic Volatile Organic Compounds" *J. Air & Waste Management Association*, **49**(12): 1434-1441.
79. **Mohseni, Madjid**, K.M. Nichols, and D. Grant Allen; (1998). "Biofiltration of  $\alpha$ -pinene and its Application to the Treatment of Pulp and Paper Air Emissions" *TAPPI Journal*, **81**(8): 205-211.
80. **Mohseni, M.**, H. Kautola, and D.G. Allen; (1997). "Viscoelastic Nature of Filamentous Fermentation Broths and Their Influence on the Directly Measured Yield Stress" *J. Fermentation & Bioengineering*, **83**(3): 281-286.
81. **Mohseni, M.** and D.G. Allen; (1995). "The Effect of Particle Morphology and Concentration on the Directly Measured Yield Stress in Filamentous Suspensions" *Biotechnology and Bioengineering*, **48**: 257-265.

## CHAPTERS IN BOOKS

1. **Mohseni, M.**, McBean, E., and Rodriguez, M., (2016). "Chlorination of Drinking Water – Scientific Evidence and Policy Implications", Water Policy and Governance in Canada, ed. S. Renzetti and D. Dupond, Springer Publishing Co., (in print).
2. Linden K.G., and **Mohseni M.** (2014) Advanced Oxidation Processes: Applications in Drinking Water Treatment. In: Comprehensive Water Quality and Purification, Ahuja S. (ed.), vol. 2, pp. 148-172. United States of America: Elsevier.
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#### NON-REFEREED JOURNAL PUBLICATIONS

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3. Livingstone, Kaitlynn and **M. Mohseni** (2016). “It is all about people: the role of water operators in ensuring safe drinking water access in first nations communities” *Watermark Magazine*, BC WWA, Spring 2016: pp 68-69. <http://www.kelmanonline.com/httpdocs/files/BCWWA/watermarkspring2016/index.html>
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2. **Mohseni, M.** (2012). “New Streams of Thoughts” *WaterMarks Magazine*, BC WWA, Spring 2012: page 30.
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**REFEREED CONFERENCE PROCEEDINGS**

1. Umar, M., On, Adrian, and **Mohseni, M.** (2016) "Ion exchange resin as potential treatment for small-scale water systems in Canada" *Accepted for presentation at the American Water Works Association – Water Quality Technology Conference (AWWA-WQTC), Indianapolis, IN, November 13-17.*
2. Dixit, F. and **Mohseni, M.** (2016) "Anion exchange resins for the removal of cyanobacterial toxins from surface water" *Accepted for presentation at the American Water Works Association – Water Quality Technology Conference (AWWA-WQTC), Indianapolis, IN, November 13-17.*
3. Chintalapati, P. and **Mohseni, M.** (2016) "Combined Advanced Oxidation and Direct Photolysis for the Degradation of Microcystin-LR" *Accepted for presentation at the American Water Works Association – Water Quality Technology Conference (AWWA-WQTC), Indianapolis, IN, November 13-17.*
4. Serrano Mora, A. and **Mohseni, M.** (2015) "Influence of temperature on efficiency and energy consumption of 185 nm UV advanced oxidation for treatment of micropollutants" *Proceedings of the American Water Works Association – Water Quality Technology Conference (AWWA-WQTC), Salt Lake City, UT, November 15-18.*
5. **Mohseni, M.**, Barbeau, B., Bergese, J., LafLamme, E. (2015) "Field investigation of water treatment systems for NOM removal in a small community (Shawnigan Lake, BC)" *Proceedings of the American Water Works Association – Water Quality Technology Conference (AWWA-WQTC), Salt Lake City, UT, November 15-18.*
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9. Bagheri, M. and **M. Mohseni** (2014). "Removal of contaminants of emerging concern from drinking water using a new generation of UV-based AOP" *Proceedings of the American Water Works Association – Water Quality Technology Conference (AWWA-WQTC), New Orleans, November 16-20.*
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  14. Duca, C., G. Imoberdorf, **M. Mohseni** (2013). “New methodology for the quantification of quantum yield of micropollutants at 185 nm irradiation” *Proceedings of the 2013 Joint IOA-IUVA World Congress and Exhibition*, Las Vegas, Nevada, USA, Sept. 22-26.
  15. **Mohseni, M.**, R. North, L. Furatian (2013). “Evaluation of a pilot scale VUV photoreactor for the degradation of micropollutants in water” *Proceedings of the 2013 Joint IOA-IUVA World Congress and Exhibition*, Las Vegas, Nevada, USA, Sept. 22-26.
  16. Dubrawski, K.L. and **M. Mohseni** (2012). “Electrocoagulation for NOM Removal From Natural Water Without pH Control or Addition of Conductivity Enhancing Salts” Proceeding of the American Water Works Association – Water Quality Technology Conference (AWWA-WQTC), Toronto, November 5-7.
  17. Duca, C., G. Imoberdorf, and **M. Mohseni** (2012). “Effect of water matrix on vacuum UV photooxidation of micropollutants” Proceeding of the American Water Works Association – Water Quality Technology Conference (AWWA-WQTC), Toronto, November 5-7.
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  23. Borikar, D., S. Jasim, **M. Mohseni**, L. Bragg, M. Servos, S. Ndiongue, L. Moore, and A. Jamal (2011). "Removal of Pharmaceuticals, Personal Care Products and Endocrine Disrupting Compounds and Reduction of Disinfection By-products Using Ozone/H<sub>2</sub>O<sub>2</sub> and UV/H<sub>2</sub>O<sub>2</sub> Processes" *Proceedings of the 2nd Joint North American IOA-IUVA Conference*, Toronto, ON, Sept. 18-20.

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26. Imoberdorf, G., S. Sarathy, M. Bazri and **M. Mohseni** (2011). "UV-Based Advanced Oxidations for NOM Degradation and Removal: Impacts on characteristics, biodegradability, and disinfection by-product formation potential" *Proceedings of the 4<sup>th</sup> IWA Natural Organic Matter: From Source to Tap and Beyond*. Irvine, CA, July 27-29.
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29. Bazri, M. and **M. Mohseni** (2011). "Impact of combined coagulation-UV/H<sub>2</sub>O<sub>2</sub> treatment on biological stability of water " *Proceedings of the 2011 Joint IOA-IUVA World Congress and Exhibition*, Paris, France, May 23-27.
30. Bazri, M. and **M. Mohseni** (2010). "A Rapid Technique for Assessing the Biological Stability of UV/H<sub>2</sub>O<sub>2</sub> Treated Water" *Proceedings of the American Water Works Association (AWWA) Water Quality Technology Conference (WQTC)*, Savannah, GA, Nov. 14-18.
31. Imoberdorf, G. and **M. Mohseni** (2010). "Experimental Study of the Degradation of 2,4 D Induced by Vacuum-UV Radiation" *Proceedings of the International Water Association (IWA) Water World Congress*, Montreal, QC, Sept. 19-24.
32. Bazri, M., S. Sarathy, M. Stefan and **M. Mohseni** (2010). "Method for Assimilable Organic Carbon quantification for UV/H<sub>2</sub>O<sub>2</sub> Advanced Oxidation" *Proceedings of the International Water Association (IWA) Water World Congress*, Montreal, QC, Sept. 19-24.
33. Borikar, D., **M. Mohseni**, S. Jasim, and S. Ndongue (2010). "Removal of Pharmaceuticals, personal care products, and endocrine disrupting compounds using advanced oxidation processes" *Proceedings of the International Water Association (IWA) Water World Congress*, Montreal, QC, Sept. 19-24.
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35. Imoberdorf, G., **M. Mohseni** (2009). "Kinetics and Quantum Yield Analysis of Vacuum UV Photoreactors" *Proceedings of the International UV Association (IUVA) World Congress*, Amsterdam, September 21-23.
36. Sarathy, S. and M. Bazri, and **M. Mohseni** (2009). "A kinetic model for the degradation of natural organic matter during the ultraviolet hydrogen peroxide advanced oxidation process" *Proceedings*

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39. Ahmadi, M., **M. Mohseni**, F. Vahabzadeh, B. Bonakdarpour (2008) "Study trend of biodegradability of phenolic compounds during photo-Fenton advanced oxidation process" *Proceeding of the 5<sup>th</sup> International Chemical Engineering Congress*, Kish Island, Iran, Jan-2-5.
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41. Medeiros, D., Pires, E.C., **M. Mohseni** (2007). "Ozone Oxidation of Pulp and Paper Wastewater and its Impact on Molecular Weight Distribution of Organic Matter" *Proceedings of the IOA and IUVA World Congress*, Los Angeles, CA, Aug. 26-29.
42. Sarathy, S., M. Stefan, A. Royce, T. Mao, **M. Mohseni** (2007). "UV-H<sub>2</sub>O<sub>2</sub> Advanced Oxidation in Drinking Water Purification: Effects on water quality characteristics, DBP formation potential, and downstream biological treatment" *Proceedings of the 4<sup>th</sup> IWA Leading Edge Technologies (LET) Conference*, Singapore, June 3-6.
43. **Mohseni, M.**, F. Chowdhury, P.R. Bérubé (2007). "Ozonation of Drinking Water and its Impacts on NOM Characteristics and DBP Formation" *Proceedings of the 4<sup>th</sup> IWA Leading Edge Technologies (LET) Conference*, Singapore, June 3-6.
44. Ahmadi, M., F. Vahabzadeh, B. Bonakdarpour, **M. Mohseni** (2006). "Empirical Modeling of Fenton and Photo-Fenton Advanced Oxidation Processes for the Degradation of Phenolic Compounds" *Proceedings of the 1<sup>st</sup> European Conference on Environmental Applications of Advanced Oxidation Processes (EAAOP)*, Chania, Greece, September 7-9.
45. Sarathy, S., S. Pantin, F. Po, and **M. Mohseni** (2006). "Fate of Natural Organic Matter During UV/H<sub>2</sub>O<sub>2</sub> Advanced Oxidation" *Proceedings of the 4<sup>th</sup> Conference on Oxidation Technologies for Water and Wastewater Treatment*, Goslar, Germany, May 15-17.
46. Toor, R. and **M. Mohseni** (2005). "Reduction of Disinfection Byproduct Formation Potential Using UV-H<sub>2</sub>O<sub>2</sub> Advanced Oxidation" *Proceedings of the 3<sup>rd</sup> International Congress on Ultraviolet Technologies* in Whistler, BC, Canada, May 24-27.
47. Bérubé, P., **M. Mohseni**, A. Chin, R. Toor, (2004). "Removal of Disinfection Byproduct Precursors using Advanced Oxidation Processes" *Proceedings of the 2004 AWWA Water Quality Technology Conference* in San Antonio, TX, November 14-18.
48. **Mohseni, Madjid**, L. Zhao, D.S. Kim (2004). "Synergistic Effects of UV Oxidation on Biofiltration of non-biodegradable Volatile Organic Compounds" *Proceedings of the 2004 USC-CSC-TRG Conference on Biofiltration* in Redondo Beach, CA, October 21-23.

49. Bijan, L. and **M. Mohseni** (2004). "Integration of Ozone and Membrane Processes for Bleach Plant Effluent Treatment" *Proceedings of the 2004 International TAPPI Conference International Environmental Conference* in Atlanta, GA, May 3-5, Pp. 105-114.
50. **Mohseni, Madjid** and J-H Suh (2003). "Kinetics of 1,4-Dioxane Oxidation and Biodegradability Enhancement during O<sub>3</sub>-H<sub>2</sub>O<sub>2</sub> Treatment" *Proceedings of the 16<sup>th</sup> IOA World Congress* in Las Vegas, NV, August 31-September 4, Conference CD ROM.
51. Bijan, L. and **M. Mohseni** (2003). "Ozone Based Treatment and Its Impact on the Biodegradability of Biorefractory Compounds in Pulp Mill Wastewater" *Proceedings of the 16<sup>th</sup> IOA World Congress* in Las Vegas, NV, August 31-September 4, Conference CD ROM.
52. **Mohseni, M.** (2002). "Photocatalytic Oxidation of Vinyl Chloride (VC) in Contaminated Air Streams" *Proceedings of the 95<sup>th</sup> Air & Waste Management Annual Meeting*, Baltimore, MD, June 23-27, Pp. 808-817 (paper # 42911).
53. **Mohseni, Madjid** and D. Grant Allen; (1998). "Biofiltration of Mixture of Hydrophilic and Hydrophobic VOCs from Contaminated Air Streams" *Proceedings of the 91<sup>st</sup> Air & Waste Management Annual Meeting*, San Diego, California, June 14-18, paper # TP20C03.
54. **Mohseni, Madjid** and D. Grant Allen; (1998). "Biofiltration of Mixtures of Volatile Organic Compounds Emitted from Pulp and Paper Industries" *Proceedings of the 1998 TAPPI/CPA-TS International Environmental Conference & Exhibition*, Vancouver, BC, April 4-8, Pp. 183-193.
55. **Mohseni, Madjid** and D. Grant Allen; (1997). "The Influence of Transient Conditions on the Biofiltration of  $\alpha$ -pinene using Wood-Chip/Activated Carbon Biofilters" *Proceedings of the 90<sup>th</sup> Air & Waste Management Annual Meeting*, Toronto, Canada, June 8-13, Paper 97-WP71B04.
56. **Mohseni, Madjid** and D. Grant Allen; (1997). "Biofiltration of  $\alpha$ -pinene and its Application to the Treatment of Pulp and Paper Air Emissions" *Proceedings of the 1997 TAPPI International Environmental Conference & Exhibition*, Minneapolis, MN, May 5-7, Pp. 587-592.
57. **Mohseni, Madjid** and D. Grant Allen; (1996). "Biofiltration of  $\alpha$ -pinene using Wood Waste and Activated Carbon Media" *Proceedings of the USC-TRG Conference on Biofiltration* in Los Angeles, California, USA, October 24-25.

**SECTION II: SCHOLARLY PRESENTATIONS****INVITED PRESENTATIONS / SEMINARS**

1. Mohseni, Madjid (2016) “Application of Vacuum UV Base Oxidation to the Removal of Micropollutants and Taste and Odor Compounds” American Water Works Association (AWWA) Annual Conference and Exposition (ACE), Chicago, IL, June 19-22.
2. Mohseni, Madjid (2016) “Innovation in Small Water Systems: *Challenges and Opportunities*” Water Safety Plans Workshop, Cranfield University, UK, May 17.
3. Mohseni, Madjid (2016). “Electrochemical and Ion Exchange processes for surface water treatment” *Hokkaido University, Sapporo, Japan*, April 19.
4. Mohseni, Madjid (2016) “Small water systems and UV applications in Canada” IUVA Symposium on UV innovation towards sustainable water use, University of Tokyo, Tokyo, April 22.
5. Mohseni, Madjid (2016) “Clean Drinking Water In First Nations Communities: *What will it Really Take?*” Green College Lecture Series, UBC Green College, March 9.
6. Mohseni, Madjid (2016) “An Empirical Study of Innovation in Drinking Water System in First Nations Communities” UBC Centennial Emerging Research Workshop on Water, March 8-10.
7. Mohseni, Madjid (2016) “Safe drinking water in First Nations communities: the case for community engagement” UBC Centennial Emerging Research Workshop on Aboriginal Research, Feb 23-24.
8. Gomes, Cheryl and Mohseni, M. (2016) “Central vs Point-of-Entry/Point-of-Use Treatment: The Case of 3 Small BC Communities” BC WWA webinar series, January 27.
9. Mohseni, Madjid (2015) “Ensuring Safe Drinking Water in Small and Rural Communities: A Multi-disciplinary Approach” BC Ministry of Health webinar series, November 25.
10. Mohseni, Madjid (2015) “Community Circle: A community based solution towards safer drinking water” BC First Nations Operators Conference, Vancouver, BC, October 28-29.
11. Mohseni, Madjid (2015) “Demand and Supply of Innovation in the context of Canadian Small Drinking Water System” University of Colorado Boulder, Environmental Engineering Seminar Series, Boulder, CO, August 31.
12. Mohseni, Madjid (2015) “What should we know about drinking water quality: Is it at Risk” Royal Canadian Institute (RCI) Water Lecture Series, Science World, Vancouver, BC, June 23.
13. Mohseni, Madjid (2015). “Drinking Water Issues in Small and Rural Communities: Is There a Solution?” *Institute for Resources, Environment, and Sustainability (IRES) Speaker Series, UBC*, April 7.
14. Mohseni, Madjid (2015). “Nanomaterials and their applications to drinking water treatment” *Department of Materials Engineering, UBC*, March 31.
15. Mohseni, Madjid (2015). “Sustainable Water Supplies in Small Rural Communities: If you design it, will they use it?” *Faculty of Applied Science Engineers for a Sustainable World, UBC*, March 2.

16. Mohseni, Madjid (2014) "Innovation in community water systems: a Network Approach" Workshop on Green Technologies for Sustainable and Smart Cities, Delhi, India, October 14.
17. Mohseni, Madjid (2014) "Nanomaterials for water treatment: current applications and future opportunities" International Workshop on Advanced Fibrous Materials, Zhejiang Science and Technology University (ZSTU), Hangzhou, China, June 16.
18. Mohseni, Madjid (2014). "RES'EAU-WaterNET: a network based approach", Canadian Water Resources Congress, Hamilton, ON, June 2-3.
19. Mohseni, Madjid (2014). "UV based oxidation processes: advantages and implications for community water treatments" *EAWAG-RES'EAU workshop*, EAWAG, Dübendorf, Switzerland, April 29-30.
20. Mohseni, Madjid (2014). "Sustainable Solutions for Very Small Water Systems" Assembly of First Nations (AFN) Infrastructure and Trade Show, Toronto, ON, February 3-5.
21. Mohseni, Madjid (2014). "Innovations in Small Water Systems: Challenges and Opportunities" Workshop on Water and Innovation, Peter Wall Institute for Advanced Studies, UBC, January 22, 2014.
22. Mohseni, Madjid (2013). "Community drinking water quality and treatment: is there a place for advanced technologies", *JST-NSERC workshop*, Tokyo, Japan, Oct. 21-23, 2013.
23. Mohseni, Madjid (2013). "Innovative Small Water System Technology Research" *UBCO Small Water System Workshop*, Kelowna, BC July 18-19, 2013.
24. Mohseni, Madjid (2013). "Aboriginal Water Health" *University of Victoria First Nations Symposium*, Victoria, BC May 30, 2013
25. Mohseni, Madjid (2012). "Water and Energy: Relevance to Developing Communities" *Clean Energy Research Centre (CERC) seminar series*, Univ. of British Columbia, BC, Canada, November 26.
26. Mohseni, Madjid (2012). "Photocatalysis for water treatment: lessons learned from computational and experimental studies" *Department of Civil & Environmental Engineering, Univ. of Alberta*, Canada, October 30.
27. Mohseni, Madjid (2012). "Preventing Disinfection by-products formation: What are the viable alternatives?" *2012 Annual Drinking Water Workshop*, Gander, Newfoundland, March 27-29.
28. Mohseni, M. (2012). "Innovative and Small Systems Water Technology Research" Assembly of First Nations (AFN) National Drinking Water Conference, Edmonton, AB, March 6-7.
29. Mohseni, Madjid (2012). "Ozone Disinfection and Oxidation" *Wastewater Symposium, Department of Chemical & Biological Engineering, Univ. of Saskatchewan*, Canada, November 19.
30. Mohseni, Madjid (2012). "Water Treatment: A Network Approach" *Wastewater Symposium, Department of Chemical & Biological Engineering, Univ. of Saskatchewan*, Canada, November 19.

31. Mohseni, Madjid (2012). "Advanced Oxidation for Drinking Water Treatment and Impacts on Water Quality" *School of Environmental Science, Mahatma Gandhi University, Kottayam, India*, February 10.
32. Mohseni, Madjid (2012). "UV Advanced Oxidation Research Frontiers" *School of Environmental Science, Mahatma Gandhi University, Kottayam, India*, February 8.
33. Mohseni, Madjid (2012). "Ultraviolet and Ozone for Water Disinfection" *School of Environmental Science, Mahatma Gandhi University, Kottayam, India*, February 7.
34. Mohseni, M. (2011). "The applications of UV and Ozone for water disinfection and treatment" *Workshop on UV and Ozone in Water Treatment*, University of Tehran, Tehran, Iran, December 12.
35. Duca, C., G. Imoberdorf, and M. Mohseni (2011). "Degradation of Micropollutants using Vacuum UV (VUV) Advanced Oxidation" *17<sup>th</sup> International Conference in Advanced Oxidation Technologies*, San Diego, USA, November 7-10.
36. Mohseni, Madjid (2011). "UV-based advanced oxidation: effects on water quality" *School of Environment, Tsinghua University, Beijing, China*, June 1.
37. Mohseni, Madjid (2011). "UV Advanced Oxidation Research Frontiers" *2011 International Workshop on Ultraviolet Disinfection of Drinking Water*, TEDA, Tianjin, China, May 30-31.
38. Mohseni, Madjid (2010). "Ultraviolet irradiation for water treatment: disinfection and beyond" *2010 Clean and Safe Drinking Water Workshop*, Gander, Newfoundland, March 25.
39. Sarathy, S., G. Imoberdorf, and M. Mohseni (2009). "UV Photooxidation of Natural Organic Matter: Challenges to Drinking Water Treatment" *15<sup>th</sup> International Conference in Advanced Oxidation Technologies*, Niagara Falls, USA, October 5-8.
40. Mohseni, Madjid (2009). "RES'EAU-WaterNET: update and path forward" *Health Canada's Small Water Systems Taskforce workshop*, Ottawa, ON, Nov. 2.
41. Mohseni, Madjid (2008). "Biohydrogen and biofuel: harvesting energy from fuel" *Clean Energy Research Centre (CERC) seminar series*, Canada, November 16.
42. Mohseni, Madjid (2008). "UV-based advanced oxidation of organic matter: a focus on photoreactor development" *University of Western Ontario*, Canada, May 26.
43. Mohseni, Madjid (2008). "RES'EAU: A Network Ensuring Safe Drinking Water for Small and Rural Communities" *Canadian Water Network (CWN) workshop*, Victoria, Canada, May 26.
44. Mohseni, Madjid (2007). "UV based advanced oxidation and its application to the treatment of drinking water" *Canada-Mexico Symposium on Advanced Technologies for Water Treatment*, Celaya, Mexico, March 29-30.
45. Mohseni, Madjid (2007). "UV-based advanced oxidation: effects on water quality" *University of Cranfield*, UK, November 16.
46. Mohseni, Madjid (2007). "Photocatalytic oxidation of organic matter: a focus on photoreactor development" *University of Nottingham*, UK, November 15.

47. Mohseni, Madjid (2005). "Shining the light on air and water: photochemical oxidation of environmental contaminants" *seminar series of the Department of Chemistry*, UBC, January 28.
48. Madjid (2005). "UV-based Advanced Oxidation Processes and their Applications to the Removal Disinfection By-product Precursors" *Knowledge Transfer Seminar*, Trojan Technologies, London, ON, August 5.
49. Mohseni, Madjid (2004). "A History of UV" *BCWWA 2004 AGM Technical Transfer Session*, Whistler, BC, May 5.
50. Mohseni, Madjid (2003). "Applications of Bioprocess Engineering and Advanced Oxidation to Air and Water Treatment" *University of Northern British Columbia*, Prince George, BC, October 21.
51. Mohseni, Madjid (2003). "Pollution Control and Prevention" *University of Northern British Columbia*, Prince George, BC, October 21.
52. Mohseni, Madjid (2000). "UV Photocatalysis and its Application to the Destruction of Chlorinated Volatile Organic Compounds" *CRESTech Biofiltration III Workshop*, Waterloo, ON, February 3.
53. Allen D.G. and M. Mohseni (1997). "Biofiltration of Terpenes and the Role of Activated Carbon" *Imperial College of London*, London, UK, August 22.

#### CONFERENCE PRESENTATIONS

1. Chintalapati, P. and **Mohseni, M.** (2016) "Treatment of Microcystin-LR in Drinking Water Using Vacuum UV" *Presentation at the 17<sup>th</sup> Canadian National Conference on Drinking Water*, Ottawa, ON, October 16-18.
2. Dixit, F. and **Mohseni, M.** (2016) "Removal of algal toxins from surface water by ion exchange resins" *Presentation at the 17<sup>th</sup> Canadian National Conference on Drinking Water*, Ottawa, ON, October 16-18.
3. Bhartia, S. and **Mohseni, M.** (2016) "Assimiable organic carbon formation during vacuum UV advanced oxidation of surface water" *Presentation at the 17<sup>th</sup> Canadian National Conference on Drinking Water*, Ottawa, ON, October 16-18.
4. Chung, T-C., Serrano, A., Cataldo Hernández, M.A., Wilkinson, D.P., and **Mohseni, M.** (2016) "Capacitive deionization (DI) with activated carbon electrode for desalination of brackish water" *Presentation at the 17<sup>th</sup> Canadian National Conference on Drinking Water*, Ottawa, ON, October 16-18.
5. Gomes, C., Molyneux, T., Cook, C., Huang, J., and **Mohseni, M.** (2016) "Implementing point-of-entry (POE) treatment in small and rural communities using a community circle strategy with the full participation of residents" *Presentation at the 17<sup>th</sup> Canadian National Conference on Drinking Water*, Ottawa, ON, October 16-18.
6. Gomes, C. and **Mohseni, M.** (2016) "Central vs. point-of-entry/point-of-use drinking water treatment: the case of three small Canadian communities" *Presentation at the 17<sup>th</sup> Canadian National Conference on Drinking Water*, Ottawa, ON, October 16-18.

7. Wood, M., Marchant, B., Cook, C. and **Mohseni, M.** (2016) “A collaborative approach to ensuring clean drinking water in small and rural communities: the case of three remote communities” *Presentation at the 17<sup>th</sup> Canadian National Conference on Drinking Water*, Ottawa, ON, October 16-18.
8. Gomes, C., Molyneux, T., Robertson, and **Mohseni, M.** (2016) “Implementing point-of-entry (POE) treatment in small and rural communities using a community circle strategy with the full participation of residents” *Presentation at the Western Canadian Water Conference*, Calgary, AB, October 4-7.
9. Bhartia, S., and **Mohseni, M.** (2016) “Formation of Assimilable Organic Carbon During Vacuum UV Advanced Oxidation of Surface Water” *New England Graduate Student Water Symposium (NEGSWS)*, Sept. 9-10.
10. Serrano Mora, A., and **Mohseni, M.** (2016) “Vacuum-UV as an Alternative to UV/H<sub>2</sub>O<sub>2</sub> for Treating Chemical Contaminants In Small Water Systems” *American Water Works Association (AWWA) Annual Conference and Exposition (ACE)*, Chicago, IL, June 19-22.
11. McBeath, S., Wilkinson, D., and **Mohseni, M.** (2016) “Electrocoagulation: An Emerging Drinking Water Treatment Technology for Small Systems” *American Water Works Association (AWWA) Annual Conference and Exposition (ACE)*, Chicago, IL, June 19-22.
12. Dixit, F., Chintalapati, P., and **Mohseni, M.** (2016) “Algal toxins removal: what are the viable treatment options for small systems?” Presented at the *44<sup>th</sup> BCWWA Annual Conference and Trade Show*, Whistler, BC, May 1-3.
13. Marchant, B., and **Mohseni, M.** (2016) “Small Communities—Big Opportunities: A strategic new approach to implementing drinking water disinfection for First Nation communities” Presented at the *44<sup>th</sup> BCWWA Annual Conference and Trade Show*, Whistler, BC, May 1-3.
14. Wood, M., Chan, D., and **Mohseni, M.** (2016) “Community Circle: a collaborative approach to ensure clean drinking water in small and rural communities” Presented at the *44<sup>th</sup> BCWWA Annual Conference and Trade Show*, Whistler, BC, May 1-3.
15. **Mohseni, M.** (2016). “RES’EAU-WaterNET Small Water Systems Network: program overview and applications of UV in small and rural communities” Presented at the *International Ultraviolet Association (IUVA) World Congress and Exhibition*, Vancouver, BC, Jan. 31-Feb. 3.
16. Rezaei, R. and **Mohseni, M.** (2016). “Effect of natural organic matter (NOM) on photocatalytic oxidation of micropollutants in fluidized bed photoreactor” Presented at the *International Ultraviolet Association (IUVA) World Congress and Exhibition*, Vancouver, BC, Jan. 31-Feb. 3.
17. Serrano Mora, A. and **Mohseni, M.** (2016). “Optical properties of pure water and common solutes as a function of temperature at 185 nm and their impacts on the efficiency of Vacuum-UV photoreactors” Presented at the *International Ultraviolet Association (IUVA) World Congress and Exhibition*, Vancouver, BC, Jan. 31-Feb. 3.
18. Kheyrandish, A., Taghipour, F., and **Mohseni, M.** (2016). “UV LED characterization and modeling: The first steps to study UV-LED inactivation of microorganisms in water” Presented at the *International Ultraviolet Association (IUVA) World Congress and Exhibition*, Vancouver, BC, Jan. 31-Feb. 3.

19. Song, K., Taghipour, F., and **Mohseni, M.** (2016). "Effect of wavelengths combinations by UV-LEDs on water disinfection" Presented at the *International Ultraviolet Association (IUVA) World Congress and Exhibition, Vancouver, BC, Jan. 31-Feb. 3.*
20. Hajimalayeri, A., Taghipour, F., and **Mohseni, M.** (2016). "Impact of UV-LED fluence rate on inactivation of E.coli and Fecal Coliform" Presented at the *International Ultraviolet Association (IUVA) World Congress and Exhibition, Vancouver, BC, Jan. 31-Feb. 3.*
21. Furatian, L. and **Mohseni, M.** (2016). "Influence of temperature and chloride on the 185 nm advanced oxidation process" Presented at the *International Ultraviolet Association (IUVA) World Congress and Exhibition, Vancouver, BC, Jan. 31-Feb. 3.*
22. Chintilapati, P. and **Mohseni, M.** (2016). "Degradation of Microcystin-LR using Vacuum UV" Presented at the *International Ultraviolet Association (IUVA) World Congress and Exhibition, Vancouver, BC, Jan. 31-Feb. 3.*
23. Umar, M. and **Mohseni, M.** (2016). "Pilot-scale evaluation of vacuum ultraviolet (VUV) advanced oxidation for the degradation of micropollutants in surface small community water supplies" Presented at the *International Ultraviolet Association (IUVA) World Congress and Exhibition, Vancouver, BC, Jan. 31-Feb. 3.*
24. Bhartia, S. and **Mohseni, M.** (2016). "An assessment of assimilable organic carbon formation during Vacuum UV advanced oxidation of surface water" Presented at the *International Ultraviolet Association (IUVA) World Congress and Exhibition, Vancouver, BC, Jan. 31-Feb. 3.*
25. **Mohseni, M.**, Dubrawski, K., Molyneux, T. (2015). "A risk based decision making strategy towards standardized disinfection system in small, rural and First Nations Communities" Presented at the *Canadian Water and Wastewater Association (CWWA) National Conference* in Whistler, BC, October 26-28.
26. Rezaei, R., **Mohseni, M.** (2015). "Effect of Natural Organic Matter (NOM) on Photocatalytic Oxidation of a Target Micropollutant in Fluidized Bed Photoreactor" Presented at the *Canadian Water and Wastewater Association (CWWA) National Conference* in Whistler, BC, October 26-28.
27. Kheyrandish, A., **Mohseni, M.**, Taghipour, F. (2015). "UV-LED Characterization And Modeling: The First Steps to Study UV-LED Inactivation of Microorganisms in Water" Presented at the 65<sup>th</sup> *Canadian Society for Chemical Engineering (CSChE) Conference* in Calgary, AB, October 4-7.
28. Song, K., **Mohseni, M.**, Taghipour (2015). "UV-LEDs Microorganism Inactivation by Multiple Wavelengths and Pulse Illumination" Presented at the 65<sup>th</sup> *Canadian Society for Chemical Engineering (CSChE) Conference* in Calgary, AB, October 4-7.
29. Bagheri, M., **Mohseni, M.** (2015). "Computer-aided Study of Vacuum-UV Process for Removal of Organic Pollutants from Water Supplies" Presented at the 65<sup>th</sup> *Canadian Society for Chemical Engineering (CSChE) Conference* in Calgary, AB, October 4-7.
30. Bazri, MM, B. Martijn, J. Keroesbergen, **M. Mohseni** (2015). "Control of N-DBPs & C-DBPs precursors via ion exchange process" Presented at the American Water Works Association (AWWA) Annual Conference and Exposition (ACE), Anaheim, CA, June 7-10.
31. **Mohseni, M.** and B. Barbeau (2015). "Removal of emerging contaminants: photochemical approach" Presented at the RES'EAU-WaterNET Annual Meeting, Kelowna, BC, May 26-27.

32. Bazri, MM and **M Mohseni** (2015). “Experiences from using Ion Exchange resins for organic removal” Presented at the 43rd BCWWA Annual Conference and Trade Show, Kelowna, BC. May 27-29.
33. Furatian, L, A Serrano Mora, **M Mohseni** (2015). “Beyond disinfection: Expanding the role of UV in drinking water for small systems” Presented at the 43rd BCWWA Annual Conference and Trade Show, Kelowna, BC. May 27-29.
34. Brown, J., J. Bergese, T. Molyneux, D. Higashitani, I. Gehlen, G. Thorpe, **M. Mohseni** (2015). “Water System Upgrade in Lytton First Nation (Nickeyeah IR25) - A Community Based Solution Towards Safe Drinking Water” Presented at the 43rd BCWWA Annual Conference and Trade Show, Kelowna, BC. May 27-29.
35. Bergese, J., B. Barbeau, E. Doyle-Yamaguchi, C. Howorth, **M. Mohseni** (2015). “Organic carbon removal – DBP compliant drinking water for ALL communities” Presented at the 43rd BCWWA Annual Conference and Trade Show, Kelowna, BC. May 27-29.
36. Gomes, C, and **M. Mohseni** (2015). “Central versus Point-of-Entry/Point-of-Use Treatment: The Case of 3 Small BC Communities” Presented at the 43rd BCWWA Annual Conference and Trade Show, Kelowna, BC. May 27-29.
37. Livingstone, K. and **M. Mohseni** (2015). “Engaging with water operators to improve drinking water access in First Nations in British Columbia” Presented at the Canadian Water Network Conference, Ottawa, ON, March 10-12.
38. Abdullah, S.Z., L. Furatian, R. North, and **M. Mohseni** (2014) “Vacuum UV based advanced oxidation for small drinking water system – important process parameters” presented the Canadian Water and Wastewater Association (CWWA) National Drinking Water Conference, Gatineau, QC, Oct. 26-29.
39. Rezaei, R., and **M. Mohseni** (2014). “Effect of natural organic matter on photocatalytic oxidation of a target micropollutant in a fluidized bed photoreactor ” Presented at the 64<sup>th</sup> *Canadian Society for Chemical Engineering (CShE) Conference* in Niagara Falls, ON, October 19-22.
40. Rahmani, S., and **M. Mohseni** (2014). “The effect of water structural properties on natural organic matter removal process” Presented at the 64<sup>th</sup> *Canadian Society for Chemical Engineering (CShE) Conference* in Niagara Falls, ON, October 19-22.
41. Rezaei, R., and **M. Mohseni** (2014). “Study of the co-adsorption of natural organic matter (NOM) and target micropollutants on photocatalytic TiO<sub>2</sub> spheres” Presented at the the 248<sup>th</sup> American Chemical Society (ACS) National Meeting in San Francisco, CA, August 1-14.
42. **Mohseni, M**, B. Barbeau, P. Berube (2014). “VUV oxidation and ion exchange processes for community water treatment: an overview of recent progress” Presented at the RES’EAU-WaterNET Annual Meeting, whistler, BC, May 29-30.
43. Furatian, L., Z. Abdullah, and **M. Mohseni** (2014). “Vacuum Ultraviolet to Remove Chemical Contaminants from Drinking Water” Presented at the 42nd BCWWA Annual Conference and Trade Show, Whistler, BC. May 4-6.

44. Livingstone, K. and **M. Mohseni** (2014). "Building partnerships with BC First Nations to Create Community Appropriate Drinking Water Treatment Solutions" Presented at the *Assembly of First Nations Infrastructure Conference*, Toronto, ON, Feb. 3-5.
45. Furatian, L., K. Maleki, and **M. Mohseni** (2013). "A network based approach to innovation and technology development: case of VUV technology for small water systems" Presented at the *41<sup>st</sup> BCWWA Annual Conference and Trade Show*, Kelowna, BC, April 22.
46. Duca, C., G. Imoberdorf, and **M. Mohseni** (2012). "Effect of NOM and inorganic ions on the degradation of micropollutants with vacuum-UV radiation" Presented at the *15th Canadian Water and Wastewater Association (CWWA) Drinking Water Conference* in Kelowna, BC, October 21-23.
47. Imoberdorf, G. and **M. Mohseni** (2012). "Simultaneous degradation of micropollutants and inactivation of microorganisms in vacuum-UV photoreactors" Presented at the *15th Canadian Water and Wastewater Association (CWWA) Drinking Water Conference* in Kelowna, BC, October 21-23.
48. Rezaei, R., G. Imoberdorf, and **M. Mohseni** (2012). "Fluidized bed photocatalytic reactor activated with VUV/UV radiation" Presented at the *15th Canadian Water and Wastewater Association (CWWA) Drinking Water Conference* in Kelowna, BC, October 21-23.
49. Bagheri, M., G. Imoberdorf and **M. Mohseni** (2012). "Hydrodynamics of vacuum-UV photoreactors for drinking water treatments" Presented at the *15th Canadian Water and Wastewater Association (CWWA) Drinking Water Conference* in Kelowna, BC, October 21-23.
50. Duca, C., G. Imoberdorf, and **M. Mohseni** (2012). "Study of the kinetics of VUV-induced degradation of micropollutants" Presented at the *62<sup>nd</sup> Canadian Society for Chemical Engineering (CSChE) Conference* in Vancouver, BC, October 14-17.
51. Rezaei, R., G. Imoberdorf, and **M. Mohseni** (2012). "Study of NOM adsorption on TiO<sub>2</sub> photocatalyst spheres" Presented at the *62<sup>nd</sup> Canadian Society for Chemical Engineering (CSChE) Conference* in Vancouver, BC, October 14-17.
52. Kazemi, S., **M. Mohseni**, K. Fatih, and H. Wang (2012). "Investigating Separators to Improve Performance of Flat-Plate Microbial Fuel Cells" Presented at the *62<sup>nd</sup> Canadian Society for Chemical Engineering (CSChE) Conference* in Vancouver, BC, October 14-17.
53. Bagheri, M., G. Imoberdorf and **M. Mohseni** (2012). "Modeling of Vacuum-UV Photoreactors Using Computational Fluid Dynamics" Presented at the *62<sup>nd</sup> Canadian Society for Chemical Engineering (CSChE) Conference* in Vancouver, BC, October 14-17.
54. Duca, C., G. Imoberdorf, and **M. Mohseni** (2012). "Effects of Inorganic Ions and NOM on the Degradation of Micropollutants during UV-H<sub>2</sub>O<sub>2</sub> AOP" Presented at the *IUVA Americas Conference*, Washington DC, August 12-14.
55. Dore, M. and **M. Mohseni** (2012) "Water pricing models, sustainability and financial viability of small water systems in Canada". *Presented at BC Water and Waste Association (BCWWA) Conference and Exhibition*, Penticton, BC, April 21-25.
56. Imoberdorf, G., S. Rahmani, M. Bazri. and **M. Mohseni** (2012) "Ion exchange resins for natural organic matter removal". *Presented at BC Water and Waste Association (BCWWA) Conference and Exhibition*, Penticton, BC, April 21-25.

57. Furatian, L., M. Bagheri, C. Duca, G. Imoberdorf, and **M. Mohseni** (2012) "Application of 185 nm (VUV) for treatment of micropollutants in drinking water". *Presented at BC Water and Waste Association (BCWWA) Conference and Exhibition*, Penticton, BC, April 21-25.
58. Imoberdorf, G. and **M. Mohseni** (2011) "Evaluation of anion exchange resins for the removal of natural organic matter in surface water" *Presented at 61<sup>st</sup> Canadian Society for Chemical Engineering (CSChE) Conference* in London, ON., October 23-26.
59. Dubrawski, K. and **M. Mohseni** (2011) "Electrochemical coagulation for the production of drinking water from natural water" *Presented at 61<sup>st</sup> Canadian Society for Chemical Engineering (CSChE) Conference* in London, ON., October 23-26.
60. Chao, R. and **M. Mohseni** (2011) "Enrichment of exoelectrogenic bacteria communities for ethanol microbial fuel cells" *Presented at 61<sup>st</sup> Canadian Society for Chemical Engineering (CSChE) Conference* in London, ON., October 23-26.
61. Bazri, M. , G. Imoberdorf, and **M. Mohseni** (2011) "Pretreatment alternatives for removing natural organic matter and improving efficacy of UV based advanced oxidation for water treatment" *Presented at BC Water and Waste Association (BCWWA) Conference and Exhibition*, Kelowna, BC, April 17-20.
62. Imoberdorf, G.E. and **M. Mohseni** (2010) "Vacuum UV (VUV) for the degradation of organic micro-pollutants: A kinetic and quantum yield analysis" *Presented at the 6th Pacificchem Conference*, Honolulu, HI, Dec. 15-20.
63. Kazemi, S., K. Fatih, V. Alzate, **M. Mohseni**, and H. Wang (2010) "Energy recovery from ethanol in wastewater in microbial fuel cell" *Presented at the 218th Electrochemical Society (ECS) Meeting*, Las Vegas, NV, Oct. 11-15.
64. **Mohseni, M.** (2010) "Ensuring safe drinking water for small and rural communities: a network approach" *Presented at BC Water and Waste Association (BCWWA) Conference and Exhibition*, Whistler, BC, May 2-5.
65. Bazri, M. and **M. Mohseni** (2010) "Composite template free photocatalyst made of TiO<sub>2</sub> nanoparticles: synthesis and characterization" *Presented at BC Water and Waste Association (BCWWA) Conference and Exhibition*, Whistler, BC, May 2-5.
66. **Mohseni, M.** (2010) "Development of affordable and robust treatment technologies to ensure safe drinking water for small and rural communities" *Proceeding of the IWA International conference on sustainable solutions for small water and wastewater treatment systems*, Girona, Spain, April 19-22.
67. Kazemi, S., K. Fatih, **M. Mohseni**, H. Wang (2010) "Bioconversion of ethanol to electricity in microbial fuel cells" *Poster presentation at the annual meeting of the Agricultural Bioproducts Innovation Network Program (ABIP)*, London, ON, March 16.
68. Vega, A. and **M. Mohseni** (2009) "Composite template free photocatalyst made of TiO<sub>2</sub> nanoparticles: synthesis and characterization" *Presented at 8<sup>th</sup> World Congress of Chemical Engineering*, Montreal, QC, August 23-27.

69. Sarathy, S. and **M. Mohseni** (2009) "Application of UV/H<sub>2</sub>O<sub>2</sub> advanced oxidation process for treatment of drinking water" *Presented at 8<sup>th</sup> World Congress of Chemical Engineering*, Montreal, QC, August 23-27.
70. Duran, E., F. Taghipour, and **M. Mohseni** (2009) "Simulation of immobilized photocatalytic reactors using CFD" *Presented at 8<sup>th</sup> World Congress of Chemical Engineering*, Montreal, QC, August 23-27.
71. Sarathy, S. and **M. Mohseni** (2009) "The impact of UV/H<sub>2</sub>O<sub>2</sub> advanced oxidation treatment on natural organic matter from Capilano Reservoir (Vancouver) and Trepanier Creek (Peachland)" *Presented at 10<sup>th</sup> CAWQ Western Canadian Symposium on Water Quality Research, BC Water & Waste Association (BCWWA)*, Penticton, BC, April 27-29.
72. Duran, J.E., F. Taghipour, and **M. Mohseni** (2008) "Experimental Evaluation of CFD Mass Transfer Simulations in Annular Reactors" *Proceedings of the 58<sup>th</sup> Canadian Society for Chemical Engineering (CSChE) Conference* in Ottawa, ON, October 19-22.
73. Duran, J.E., F. Taghipour, and **M. Mohseni** (2008) "Evaluation of the Finite-Volume Discrete Ordinate Models for Solving the Radiation Field in Photoreactors" *Proceedings of the 58<sup>th</sup> Canadian Society for Chemical Engineering (CSChE) Conference* in Ottawa, ON, October 19-22.
74. Robaire, S., C. Haynes, **M. Mohseni** (2008) "Biological Hydrogen Production using Citrobacter Amalonaticus Y19 to Catalyze the Water-Gas Shift Reaction" *Proceedings of the 58<sup>th</sup> Canadian Society for Chemical Engineering (CSChE) Conference* in Ottawa, ON, October 19-22.
75. Sarathy, S. and **M. Mohseni** (2008) "UV/H<sub>2</sub>O<sub>2</sub> Advanced Oxidation of Drinking Water: Impacts on Natural Organic Matter" *Proceedings of the 58<sup>th</sup> Canadian Society for Chemical Engineering (CSChE) Conference* in Ottawa, ON, October 19-22.
76. Dore, M. and **M. Mohseni** (2008) "A Network Ensuring Safe Drinking Water for Small and Rural Communities" *Presentation at the Canadian Water & Wastewater Association (CWWA) 13<sup>th</sup> National Drinking Water Conference, Quebec City, QC, Oct. 4-7*.
77. Robaire, S., C. Haynes, **M. Mohseni** (2008) "Effect of Media Components on Biological Hydrogen Production through the Water-Gas Shift Pathway using Citrobacter Amalonaticus Y19" *Proceedings of the Pacific Rim Summit on Industrial Biotechnology and Bioenergy* in Vancouver, BC, Sept. 10-12.
78. Duran, J.E., F. Taghipour, and **M. Mohseni** (2008) "A CFD-based model for simulating immobilized photocatalytic reactors: Development and Preliminary Evaluation". *Proceedings of the international conference: Computational Fluid Dynamics in Chemical Reaction Engineering V*, Whistler, Canada, June 15-20.
79. Duran, E., **M. Mohseni**, F. Taghipour (2007). "Development of a CFD-based Model for the Simulation of Immobilized Photocatalytic Reactors Used for Water Treatment" *Proceedings of the 57<sup>th</sup> Canadian Society for Chemical Engineering (CSChE) Conference* in Edmonton, AB, October 28-31.
80. Sarathy, S. and **M. Mohseni** (2007). "UV/H<sub>2</sub>O<sub>2</sub> Advanced Oxidation- Applications in Drinking Water Treatment and Impacts on Natural Organic Matter" *Proceedings of the BCWWA 35<sup>th</sup> Annual General Meeting*, Penticton, BC, April 21-25.

81. Medeiros, D. and **M. Mohseni** (2007). "Ozonation of Pulp and Paper Wastewater and its Impact on Molecular Weight Distribution of Organic Matter" *Proceedings of the BCWWA 35<sup>th</sup> Annual General Meeting*, Penticton, BC, April 21-25.
82. Sarathy, S. and **M. Mohseni** (2006). "UV/H<sub>2</sub>O<sub>2</sub> Advanced Oxidation and its Impact on Natural Organic Matter and Disinfection By-product Precursors" *Proceedings of the 12<sup>th</sup> International Conference in Advanced Oxidation Technologies*, Pittsburgh, PA, Sept. 25-28.
83. Ahmadi, M., S. Sarathy, **M. Mohseni** (2006). "Degradation of Phenolic Pollutants in Water using Fenton and Photo-Fenton Advanced Oxidation Processes" *Proceedings of the BCWWA 34<sup>th</sup> Annual General Meeting*, Whistler, BC, May 1-3.
84. **Mohseni, M.**, M. Keshmiri, G. Thorpe, T. Troczynski (2005). "Photocatalytic Titanium Dioxide Composite Coating for the Removal of Disinfection Byproducts Precursors" *Proceedings of the PacifiChem Conference* in Honolulu, December 15-20.
85. Moussavi, G.R. and **M. Mohseni** (2005). "Effective Degradation of Mixtures of Vapor Phase Toluene and *O*-xylene using Combined UV Photooxidation-Biofiltration" *Proceedings of the 55<sup>th</sup> CSChE Conference* in Toronto, ON, October 16-19.
86. **Mohseni, M.** and F. Taghipour (2005). "CFD and Experimental Investigation of Annular Photoreactors for Vapor Phase Trichloroethylene and Vinyl Chloride Oxidations" *Proceedings of the 55<sup>th</sup> CSChE Conference* in Toronto, ON, October 16-19.
87. Toor, R. and **M. Mohseni** (2005). "UV based Advanced Oxidation of DBP Formation Potentials in Drinking Water" *Proceedings of the BCWWA 33<sup>rd</sup> Annual General Meeting*, Penticton, BC, April 16-20.
88. Chowdhury, F. L., P. Berube, **M. Mohseni** (2005). "Characterization of Natural Organic Matter in Drinking Water, their effect in Disinfection By-product Formation Potential and the Impact of Ozone and Membrane Treatment on those Characteristics" *Proceedings of the BCWWA 33<sup>rd</sup> Annual General Meeting*, Penticton, BC, April 16-20.
89. **Mohseni, Madjid** (2005). "Shining the light on air and water: photochemical oxidation of environmental contaminants" *presentation at the weekly seminar series of the Department of Chemistry*, UBC, January 28.
90. Keshmiri, M., T. Troczynski, **M. Mohseni** (2004). Novel Titanium Dioxide Composite Coatings for Air Purification" *Proceedings of the 9<sup>th</sup> International Conference on TiO<sub>2</sub> Photocatalysis*, San Diego, CA, October 24-28.
91. **Mohseni, M.** and F. Taghipour (2004). "Computational Fluid Dynamics (CFD) Simulation of UV Photocatalytic Reactor for Air Treatment" *Proceedings of the 9<sup>th</sup> International Conference on TiO<sub>2</sub> Photocatalysis*, San Diego, CA, October 24-28.
92. **Mohseni, Madjid** (2004). "A History of UV" *invited presentation at the BCWWA 2004 AGM Technical Transfer Session*, Whistler, BC, May 5.
93. Toor, R. and **M. Mohseni** (2004). "UV-H<sub>2</sub>O<sub>2</sub> based Advanced Oxidation and its Application to the Removal of Disinfection by-Products (DBP) Precursors" *Proceedings of the 54<sup>th</sup> CSChE Conference* in Calgary, AB, October 3-6.

94. Bijan, L. and **M. Mohseni** (2004). "Recalcitrant Removal from Pulp Mill Wastewater using Integrated Membrane and Ozone-Based Treatments" *Proceedings of the 54<sup>th</sup> CSChE Conference* in Calgary, AB, October 3-6.
95. Bijan, L. and **M. Mohseni** (2004). "Integrated Membrane and Ozone Oxidation Process for Industrial Wastewater Treatment" *Proceedings of the 2<sup>nd</sup> Leading-Edge Conference on Water and Wastewater Treatment Technologies* in Prague, Czech Republic, June 1-4.
96. Chin, A., P. Bérubé, P. Parkinson, **M. Mohseni**, D. Mavinic (2004). "Removal of Disinfection By-Product Precursors with O<sub>3</sub>-UV AOP" *Proceedings of the BCWWA 2004 Annual General Meeting*, Whistler, BC, May 1-5.
97. Suh, J.H. and **M. Mohseni** (2003). "Degradation of 1,4-Dioxane using O<sub>3</sub>/H<sub>2</sub>O<sub>2</sub>" *Proceedings of the International Symposium on Clean Environment*, Chunan City, Korea, November 21-22.
98. Bijan, L. and **M. Mohseni** (2003). "Advanced Oxidation and its Application for the Treatment of Pulp Mill Effluents" *Poster Presentation at 89<sup>th</sup> PAPTAC Annual Meeting* in Montreal, QC, January 27-31.
99. **Mohseni, Madjid** (2003). "Applications of Bioprocess Engineering and Advanced Oxidation to Air and Water Treatment" *invited presentation at the University of Northern British Columbia*, Prince George, BC, October 21.
100. Keshmiri, M., **M. Mohseni**, and T. Troczynski; (2002). "Photocatalytic TiO<sub>2</sub> Composite Sol-Gel Coatings for Air Purifications" *Proceedings of the 7<sup>th</sup> International Conference on TiO<sub>2</sub> Photocatalytic Purification of Air and Water* in Toronto, ON, November 17-21.
101. Bijan, L. and **M. Mohseni** (2002). "Advanced Oxidation and its Potentials for Enhancing the Biodegradability of Recalcitrants in Pulp Mill Wastewater Streams" *Proceedings of the 52<sup>nd</sup> CSChE Conference* in Vancouver, BC, October 20-23.
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