

PUBLICATION LIST

Journal Publications/Books

1. Baig, K., Doan, H. and **Wu, J.** (2009). Multicomponent isotherms for biosorption of Ni²⁺ and Zn²⁺. *Desalination* **249**, 429-439.
2. Doan, H., Weli, A. and **Wu, J.** (2009). A combined photocatalytic and electrochemical treatment of wastewater containing propylene glycol methyl ether and metal ions. *Chem. Eng. J.* **151**, 51-58.
3. Gu, H., **Wu, J.** and Doan, H. (2009). Hydrophilicity enhancement of high density polyethylene film by ozonation, *Chem. Eng. Technol.* **32**, 726-731.
4. **Wu, J.**, Doan, H. and Upreti, S. (2008). Decolorization of aqueous textile reactive dye by ozone, *Chem. Eng. J.* **142**, 156-160.
5. Doan, H., **Wu, J.** and Eyvazi, M. (2008). Effect of liquid distribution on the organic removal in a trickle bed filter, *Chem. Eng. J.* **139**, 495-502.
6. Doan, H. **Wu, J.** and Mitzakov, R. (2006). Combined electrochemical and biological treatment of industrial wastewater using porous electrodes, *J. Chem. Technol. Biotechnol.* **81**, 1398 – 1408.
7. **Wu, J.**, Doan H. and Cuenca, M. (2006). Investigation of gaseous ozone as an anti-fungal fumigant for stored wheat, *J. Chem. Technol. Biotechnol.* **81**, 1288-1293.
8. Yong, K., **Wu, J.** and Andrews, S. (2005). Heterogeneous Catalytic Ozonation of Aqueous Reactive Dye. *Ozone Sci. Eng.*, **27**, 257-263.
9. **Wu, J.** and Doan, H. (2005). Disinfection of Recycled Red-Meat-Processing Wastewater by Ozone. *J. Chem. Technol. Biotechnol.* **80**, 828-833.
10. **Wu, J.** (2005). Ozone Treatment. In *Encyclopedia of Chemical Processing*, Marcel Dekker, New York, NY, Page 1993-2001.
11. Allen, B., **Wu, J.** and Doan, H. (2003). Inactivation of Fungi Associated with Barley Grain by Gaseous Ozone. *J. Environ. Sci. Health*, **B38** (5), 617-630.
12. Doan, H., **Wu, J.**, Boithi, E. and Storrar, M. (2003). Treatment of wastewater using a combined biological and electrochemical technique. *J. Chem. Technol. Biotechnol.* **78**, 632-641.
13. Doan, H. and **Wu, J.** (2002). Biological treatment of wastewater from a polymer coating process. *J. Chem. Technol. Biotechnol.*, **77**, 1076-1083.

14. **Wu, J.** and Wang, T. (2001). Effects of some water-quality and operating parameters on the decolorization of reactive dye solutions by ozone. *J. Environ. Sci. Health*, **A36** (7), 1335-1347.
15. **Wu, J.** and Wang, T. (2001). Ozonation of aqueous azo dye in a semi-batch reactor. *Water Res.*, **35**, 1093-1099.
16. **Wu, J.**, Rudy, K. and Spark, J. (2000). Oxidation of aqueous phenol by ozone and peroxidase. *Adv. Environ. Res.*, **4**, 339-346.
17. **Wu, J.**, Nhaesi, A. and Asfour, A. (1999). Viscosities of eight binary liquid n-alkane systems at 293.15 K and 298.15 K. *J. Chem. Eng. Data*, **44**, 990-994.
18. **Wu, J.**, Nhaesi, A. and Asfour, A. (1999). Viscometric properties of eight binary liquid n-alkane systems at 308.15 and 313.15 K. *Fluid Phase Equilibria*, **164**, 157-300.
19. **Wu, J.**, Eiteman, M. and Law, S. (1998). Evaluation of membrane filtration and ozonation processes for the treatment of reactive dye wastewater. *J. Environ. Eng.*, **124**, 272-277.
20. Hitchcock, D., Law, S., **Wu, J.** and Williams, P. (1998). Determining toxicity trends in the ozonation of synthetic dye wastewaters using the nematode *Caenorhabditis elegans*. *Arch. Environ. Contam. Toxicol.*, **34**, 259-264.
21. **Wu, J.**, Shan, Z. and Asfour, A. (1998). Viscometric properties of multicomponent liquid n-alkane systems. *Fluid Phase Equilibria*, **143**, 263-274.
22. **Wu, J.**, Bewtra, J., Biswas N. and Taylor, K. (1994). Effects of H₂O₂ addition mode on enzymatic removal of phenol from wastewater in the presence of polyethylene glycol. *The Can. J. Chem. Eng.*, **72**, 881-886.
23. **Wu, J.** and Asfour, A. (1994). Densities and excess molar volumes of eight n-alkane binary systems at 293.15 and 298.15 K. *Fluid Phase Equilibria*, **102**, 305-315.
24. **Wu, J.**, Taylor, K., Bewtra, J. and Biswas N. (1993). Optimization of the reaction conditions for enzymatic removal of phenol from wastewater in the presence of additive. *Water Research*, **27**, 1701-1706.
25. **Wu, J.** and Asfour, A. (1992). Viscometric properties of n-alkane liquid mixtures. *Fluid Phase Equilibria*, **76**, 283-294.

26. Asfour, A., Cooper, E., **Wu, J.** and Zahran, R. (1991). Prediction of McAllister model parameters from pure component properties for liquid binary n-alkane systems. *I&EC Research*, **30**, 1666-1669.
27. **Wu, J.** and Asfour, A. (1991). Composition dependence of densities and excess molar volumes of mixing of C₈ - C₁₅ n-alkane binary liquid systems at 308.15 and 313.15 K. *Fluid Phase Equilibria*, **61**, 275-284.

Conference Proceedings/Presentations:

1. A. Hmood, H. Doan and **Wu, J.**, Optimization of the precipitation of Zn²⁺ and Ni²⁺ in wastewater: influence of rapid mixing parameters. *The 60th Canadian Chemical Engineering Conference*, Saskatoon, Saskatchewan, Oct. 24-27, 2010.
2. K. Baig, H. Doan, and **Wu, J.**, Transport and mechanism of biosorption of Ni²⁺ and Zn²⁺ on wheat straw. *8th World Congress of Chemical Engineering*, Montreal, QUE, August 23-27, 2009.
3. K. Baig, H. Doan, and **Wu, J.**, Equilibrium and thermodynamic study of biosorption of Ni and Zn in an aqueous solution by wheat straw. *The 58th Canadian Chemical Engineering Conference*, Ottawa, ON, October 19-22, 2008.
4. Naqvi, S., Doan, H. and **Wu, J.**, Effect of temperature and pH on biological oxidation of antifreeze coolant using a packed column aerator. *The 55th Canadian Chemical Engineering Conference*, Toronto, ON, Oct. 16-19, 2005.
5. Song, X., Lu, J., Siddiqi, M. and **Wu, J.**, Some aspects of atmospheric mercury species in downtown Toronto. *The 8th International Conference on Heavy Metals in the Environment*, Rio de Janeiro, Brazil, June 5-9, 2005.
6. Mitzakov, R., Doan, H. and **Wu, J.**, Removal of metal ions and organic solvents in industrial wastewater by an electrochemical technique using porous electrodes. *Proceedings of the 2004 NSF Design, Service and Manufacturing Grantees and Research Conference*, Dallas, Texas, January 5-8, 2004.
7. **Wu, J.** and Doan, H., Ozone disinfection of slaughterhouse effluent. *The 53rd Canadian Chemical Engineering Conference*, Hamilton, ON, October 26-29, 2003.
8. Doan, H., **Wu, J.**, Boithi, E. and Storrar, M. Removal of nickel and zinc ions in wastewater at a low concentration using an electrochemical technique. *The 52nd Canadian Chemical Engineering Conference*, Vancouver, BC, October 20-23, 2002.

9. **Wu, J.** and Wang, T. Removal of the reactive dye from textile wastewater by ozone. *The 50th Canadian Chemical Engineering Conference*, Montreal, PQ, October 15-18, 2002.
10. **Wu, J.** and Wang, T. Efficiency enhancement of ozone removal of azo dyes from wastewater. *The American Institute of Chemical Engineers Annual Meeting*, Dallas, Texas, October 30 - November 5, 1999.
11. **Wu, J.** Oxidative polymerization of phenol in wastewater: An assessment of ozonation and enzymatic process. *The 49th Canadian Chemical Engineering Conference*, Saskatoon, SK, October 3-6, 1999.
12. **Wu, J.**, Eiteman, M. and Law, S. Treatment of textile wastewater by membrane filtration and ozonation. *The American Institute of Chemical Engineers Annual Meeting*, Chicago, Illinois, November 10-15, 1996.
13. Hitchcock, D., Law, S., **Wu, J.** and Williams, P. Determining toxicity trends in the ozonation of dye wastewater using *Caenorhabditis elegans*. *Society of Environmental Toxicology and Chemistry 17th Annual Meeting*, Washington, DC, November 17-21, 1996.
14. Law, S., **Wu, J.** and Eiteman, M. (1996). Ozone decolorization of cotton dyehouse wastewater. *Proceedings of 1996 ASAE Annual International Meeting*, July 14-18, 1996, Phoenix, Arizona (ASAE Paper No. 96-1016 (microfiche), St. Joseph, MI).
15. **Wu, J.**, Talor, K., Bewtra, J. and Biswas, N. Optimization of the reaction conditions for enzymatic removal of phenol from wastewater in the presence of polyethylene glycol. *The 28th Central Canadian Symposium on Water Pollution Research*, Burlington, Ontario, February 10, 1993.
16. **Wu, J.** and Asfour, A. Properties of some n-alkane binary and ternary mixtures as functions of temperature. *The 11th Symposium on Thermophysical Properties*, National Institute of Standards and Technology, Boulder, CO, , June 23-27, 1991.

Industrial Reports

Law, S.E. and **Wu, J.**, 1997. CCACTI (The Consortium on Competitiveness for the Apparel, Carpet and Textile Industries in Georgia) Annual Report: The J&J Industries Project - Lowering BOD/COD Loads in Carpet Plants by Oxidation.

Law, S.E. and **Wu, J.**, 1997. Progress Report to Southern Company Services Inc. (Georgia) on Ozonation of Wastewater from POTW and Spent Reactive Dyebath.

Law, S.E., Eiteman, M.A. and **Wu, J.**, 1996. CCACTI Annual Report: The Washington - Georgia Project - Applications of Ozone Technology for Decolorizing Textile Dyehouse Effluents.

Bewtra, J.K., Biswas, N., **Wu, J.**, Yu, J., Wu, Y., Dantas, B., Taylor, K.E., AL-Kassium, L. and Baynton, K., 1993. Progress Report on Enzymatic Removal of Organic Contaminants from Wastewater. Submitted to the Institute for Chemical Science and Technology and University Research Incentive Fund of the Government of Ontario.