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Research Interests

Drinking water treatment; advanced oxidation processes for removal of environmental pollutants; ozonation; disinfection by-products; hazardous waste management.

Education

B.Sc. : Chemistry Ed. Dept, Marmara University, İstanbul, 1991

M.Sc. : Environmental Sc., Boğaziçi University, İstanbul, 1994

M.Sc. : Environmental Sc., Drexel University, Philadelphia, 1997

PhD : Environmental Sc., Drexel University, Philadelphia, 1999

Academic Experience

1991-1999 : Research Assistant, Marmara University

1999-2000 : Research Assistant, PhD, Marmara University

2000-2004 : Assistant Professor, Marmara University

2004-2005 : Visiting Professor, San Diego State University

2005-2006 : Assistant Professor, Marmara University

2006- : Associate Professor, Marmara University

Thesis Supervised

Yapsaklı, K., “Investigation of Ozone/Formic Acid System as an Advanced Oxidation Process”, M.Sc. Thesis, Marmara University, 2002.

Ünat, İ., “Investigation of Decentralized Wastewater Treatment Technologies Casestudy: Giresun Dereli”, M.Sc. Thesis, Marmara University, 2009.

Çakır, E., “Disinfection and Oxidation of Paşaköy Advanced Biological Treatment Plant Effluent by Advanced Oxidation Techniques”, M.Sc. Thesis, Marmara University, 2010.

Kuş, Ç. D., “Developing a Cost Effective Technology for the Reuse of Sewage Treatment Plant Effluent”, M.Sc. Thesis, Marmara University, 2010.

Ongoing Thesis Co-Supervised

Yazıcı, B., "Evaluation of Hazardous Wastes Generated from Automotive Industry in Turkey and Their Disposal Practices", M.Sc. Thesis, Marmara University, 2010-

Yazıcı, B., "Recovery of Rigid Polyurethane Used in Refrigerators", M.Sc. Thesis, Marmara University, 2010-

International Scientific Papers

Can, Z. S., Cakır, E., "Treatability of Organic Constituents in the Pasakoy Wastewater Treatment Plant Effluent by O₃ and O₃/H₂O₂", *Ozone Science and Engineering*, **32**, 209-214, (2010).

Yapsaklı K. and Can, Z.S., "Interaction of Ozone with Formic Acid – A System which Suppresses the Scavenging Effect of HCO₃⁻/CO₃⁼", *Water Quality Research Journal of Canada*, **39**, 140-148, (2004).

Can, Z.S. and Gürol, M.D., "Formaldehyde Formation During Ozonation of Drinking Water", *Ozone Science & Engineering*, **25**, 41-51, (2003).

Can, Z.S. and Gürol, M.D., "Effect of Bromide Ion on Formaldehyde Formation During Ozonation of Drinking Waters", *Water Science & Technology:Water Supply*, **1**, 119-124, (2001).

Karpuzcu, M., Buktel, D., Aydın, Z.S., "The Dewaterability, Heavy Metal Release and Reuse Characteristics of Golden Horn Surface Sediment", *Water Science & Technology*, **34**, 365-374, (1996).

International Conference Papers/Posters

Evcimen S., Fırlak, M., Kerç, A., Can, Z.S., "Investigation of Endocrine Disrupting Compound Removal Efficiencies of Istanbul Wastewater Treatment Plants", Poster, International Sustainable Water and Wastewater Management Symposium, 26-28 October 2010, Konya/Turkey

Can, Z.S., Fırlak, M., Evcimen S., Kerç, A. "Screening of Endocrine Disrupting Compounds in Paşaköy Municipal Wastewater Treatment Plant and Their Removal By Ozonation", 5th Blacksea Basin Conference on Analytical Chemistry, Fatsa-Ordu, Turkey, September 23-26, 2009.

Can, Z. S., Cakır, E., "Treatability of Organic Constituents in the Pasakoy Wastewater Treatment Plant Effluent by O₃ and O₃/H₂O₂", 1st International Workshop on Application of Redox Technologies in the Environment, İstanbul, September 14-15, 2009.

Ünal, S., Can, Z.S. and Genç, S., “LCA in Engineering Education”, 4th Setac World Congress, Portland-OR, 14-18 November 2004.

Ünal, S., Can, Z.S. and Genç, S., “Sustainable Development Dimension in Engineering Education”, UN Global Compact Academic Conference, İstanbul - Sabancı University, May 30th – June 1st 2004

Can, Z.S. and Gürol, M.D., " Effect of Bromide Ion on Formaldehyde Formation During Ozonation of Drinking Water”, *Proceedings of the First World Water Congress of the International Water Association*, 42-49, Paris, 3-7 July, 2000

Karpuzcu, M., Buktel, D., Aydın, Z.S., “The Dewaterability, Heavy Metal Release and Reuse Characteristics of Golden Horn Surface Sediment”, *18th Biennial Conference of the IAWQ*, 63-72, Singapore, 23-28 June 1996

Can, Z.S. and Yükselen, M. A., “Trace Metal Uptake Characteristics of the Golden Horn Sediment”, *Proceedings of the International Specialized Conference on Marine Disposal Systems, IAWQ*, 304-306, Poster, İstanbul, 9-11 November, 1994.

Yükselen, M. A. and Can, Z.S., “The After Effect of a Long Term Marine Disposal into an Estuary: Biological Characterization of the Golden Horn Estuary Sludge”, *Proceedings of the International Specialized Conference on Marine Disposal Systems, IAWQ*, 307-310, Poster, İstanbul, 9-11 November, 1994