

ESRA ERDİM

PUBLICATIONS

Dissertations

Erdim, E. (2010). Hydraulic Behaviour of Non-Spherical Particles Through Packed Beds, *PhD. Diss.*, ITU

Erdim, E. (2003). Effects of Various Amendments on Composting of Advanced Wastewater Treatment Plant Sludge, *MSc. Diss.*, ITU

Peer-reviewed papers

1. **Erdim, E.**, Akgiray, Ö., Demir, İ. (2015). A revisit of Pressure Drop - Flow Rate Correlations for Packed Beds of Spheres, *Powder Technology*, 283, 488–504
2. **E. Erdim**, A.R. Badireddy, M.R. Wiesner, Characterizing Reactive Oxygen Generation and Bacterial Inactivation by a Zerovalent Iron-Fullerene Nano-Composite Device at Neutral pH Under UV-A Illumination, *Journal of Hazardous Materials*, Volume 283, January 2015, Pages 80-88.
3. Aydın, E., Yaman, F.B., Genceli, E. A., Topuz, E., **Erdim, E.**, Gurel, M., Ipek, M., Pehlivanolu-Mantaş, E. (2012). Occurrence of THM and NDMA precursors in a watershed: Effect of seasons and anthropogenic pollution, *Journal of Hazardous Materials*, Volumes 221–222, 30 June 2012, Pages 86-91.
4. E. Soyer, **E. Erdim**, S. Tasiyici, I. Koyuncu (2009). Natural and modified zeolite utilization in submerged membrane reactor for potable water treatment, *Desalination and Water Treatment*, 9, 201-210.
5. **E. Erdim**, E. Soyer, S. Tasiyici, I. Koyuncu (2009). Hybrid photocatalysis/submerged microfiltration membrane system for drinking water treatment, *Desalination and Water Treatment*, 9, 165-174.
6. C.Y. Gomec, **E. Erdim**, I. Turan, A.F. Aydın, I. Ozturk (2007). Advanced oxidation treatment of physico-chemically pre-treated olive mill industry effluent, *Journal of Environmental Science and Health, Part B*, 42, 741–747.
7. M. Cakmakci, **E. Erdim**, C. Kinaci and L. Akca (2005). Evaluation of sludge management alternatives in Istanbul metropolitan area, *Water Science & Technology*, Vol 51, No 11 pp 121–129.

Conference Proceedings

1. E. Soyer, E. Erdim, S. Tasiyici, M. Akdagli, M. Cakmakci and I. Koyuncu. (2009). Decomposition of NOM by Ultrasonic Irradiation in a Submerged Membrane System, 5th IWA Specialised Membrane Technology Conference for Water and Wastewater Treatment (IWA-MTC2009), 1-3 September, Beijing, China
2. E. Soyer, E. Erdim, S. Tasiyici, M. Akdagli, M. Cakmakci and I. Koyuncu. (2009). Pre-adsorption of Natural Organic Matter (NOM) in a Submerged Membrane-Adsorption Hybrid System for Potable Water Treatment, 5th IWA Specialised Membrane Technology Conference for Water and Wastewater Treatment (IWA-MTC2009), 1-3 September, Beijing, China
3. Koyuncu, I., Erdim, E., Soyer, E. and Tasiyici, S. (2009). New methods to decrease fouling on ultrafiltration submerged membrane system, IWA Nanoparticle and Particle Separation Conference, 3-5 June, Durham, North Carolina, USA
4. Erdim, E., Soyer, E., Tasiyici, S., and Koyuncu, I. (2008). Hybrid Photocatalysis/Submerged Microfiltration Membrane System for Drinking Water Treatment, MDIW 2008 Conference on Membranes in Drinking Water Production and Wastewater Treatment, Toulouse, 20-22 October.
5. Soyer, E., Erdim, E., Tasiyici, S., and Koyuncu, I. (2008). Natural and Modified Zeolite Utilization in Submerged Membrane Reactor for Potable Water Treatment, MDIW 2008, Conference on Membranes in Drinking Water Production and Wastewater Treatment, Toulouse, 20-22 October.
6. Koyuncu, I., Demiral, N., Erdim, E., Soyer, E., and Arslan, A. (2008). Reuse of Segregated Textile Effluents by Membrane Technologies, IWA Regional Conference: "Membrane Technologies in Water and Waste Water Treatment", Moscow, 2-4 June.
7. E. Buyuk, E. Erdim, and L. Akca (2007). Investigation of In-Sewer Treatment Processes, 14th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region, Sevilla, Spain, October 10-14 (poster presentation)
8. N. Kayaalp, M. Cakmakci, E. Erdim, L. Akca and C. Kinaci. (2007). Remediation of drilling muds at Thrace region. Facing Sludge Diversities Challenges, Risks & Opportunities. 28-30 March, Antalya, Turkey. (poster presentation)
9. C. Y. Gomec, E. Erdim, I. Turan, A. F. Aydin and I. Ozturk. (2006). Advanced oxidation treatment of physico-chemically pre-treated olive mill industry effluent. Proc. 7th International Symposium on Waste Management Problems in Agro-Industries, Amsterdam, The Netherlands, 105-112.

10. Gomec, C. Y., Erdim, E., Demir, I., Tezer, H. and Ozturk, I. (2006). Sludge conditioning, dewatering and composting experiences on a Wet Corn Milling Industry. IWA Specialized Conference-Sustainable sludge management: state of the art, challenges and perspectives, May 29-31, Moscow, Russia, 429-434.
11. Alp, K., Eldem, N., Gomec, C. Y., Erdim, E. and Ozturk, I. (2005). Significance and Control of Scaling for Anaerobic Digesters Treating Young Landfill Leachates, Proceedings of the 4th International Symposium on Anaerobic Digestion of Solid Waste , 31 August-02 September, Copenhagen, Denmark, Volume 2, 233-238.
12. Erdim, E., Sızırıcı, B. and Akca, L. (2004). Settling and Dewatering Characteristics of Low-Turbidity Alum Sludges, Resources from Sludge: Forging New Frontiers, 2-3 March, Raffles Town Club, Singapore
13. Yangin Gomec, C., Erdim, E., Ozturk, I. and Bilge, C. (2004). Advanced Full-Scale Post Treatment Experiences on Anaerobic Expanded Bed Bioreactor Effluent From a Corn Milling Industry, Proceedings of the 10th World Congress on Anaerobic Bioconversion...Answer for Sustainability, 29 August-02 September, Montreal, Ottawa, Canada, Volume IV, 2207-2210.
14. Cakmakci, M., Erdim, E., Kinaci, C., Akca, L., (2004). Sludge management in İstanbul metropolitan area, Fourth International Black Sea Conference Environmental Protection Technologies for Coastal Areas, 204-220, 9-11 June, Varna, Bulgaria

Conference Proceedings (National)

1. Sızırıcı, B., Akca, L., Erdim, E., (2003). Alum çamurlarının şartlandırılması, Türkiye'de Çevre Kirlenmesi Öncelikleri Sempozyumu IV, 9-10 Ekim 2003, Gebze Yüksek Teknoloji Enstitüsü, Gebze, Kocaeli
2. Alp, K., Erdim, E., Eldem, N., Ozturk, I., (2004). Odayeri Kemerburgaz Katı Atık Depolama Tesisi Sızıntı Suyunda Çökelme Problemi, 9. Endüstriyel Kirlenme Kontrolü Sempozyumu, Bildiriler Kitabı, 39, İstanbul, Türkiye
3. Soyer, E., Erdim, E., Akgiray, O., Saatci, A.M. (2008). Kirlenmiş Havzalardan Beslenen İçme Suyu Arıtma Tesisleri için İyileştirme Teknikleri, Kent Yönetimi, İnsan ve Çevre Sorunları Sempozyumu, 2-6 Kasım, İstanbul
4. Koyuncu, I., Keskinler, B., Kinaci, C., Soyer, E., Erdim, E., Ozgun, H., Kayaalp, N., Ersahin, E., Wiesner, M., Tarabara, V. and Steinmetz, H. (2009). Su ve Atıksu Arıtımında Membran Teknolojisi, İTÜ Nano-Bilim and Nano-Teknoloji Çalıştayı, 12-13 Şubat, İstanbul

5. Koyuncu, I., Soyer, E., Erdim, E. and Wiesner, M. (2009). İçme sularında nanopartiküller, İTÜ Nano-Bilim and Nano-Teknoloji Çalıştayı, 12-13 Şubat, İstanbul (poster)
6. Akdağlı, M., Taşyıcı S., Soyer E., Erdim, E., Çakmakçı, M., Uyak V., Koyuncu, I. (2009). Batık Membran Sistemleri ile İçme Suyu Arıtımı, MEMTEK Membran Teknolojileri ve Uygulamaları Sempozyumu, 2-3 Kasım, İstanbul

National Peer-Reviewed Papers

Erdim, E., Demir, İ., Akgiray, Ö. (2010) Prediction of clean bed head-loss for various filter materials, *itüdergisi/e su kirlenmesi kontrolü* Cilt:20, Sayı:1, 111-119 (in Turkish)