

## Doç.Dr. Elif Soyer

Marmara Üniversitesi, Mühendislik Fakültesi Çevre Mühendisliği Bölümü Göztepe 34722, İstanbul Tel: 0216 348 0292 / 1285

E-posta: elif.soyer@marmara.edu.tr

esover@gmail.com

## Uluslararası Dergilerde Makaleler (SCI & SCI-E)

- 1. Yiğit Hunce, S., Soyer, E., Akgiray, Ö. Use of filterability index in granular filtration: effect of filter medium type, size and shape. *Water Science and Technology: Water Supply*. doi: 10.2166/ws.2018.083
- 2. Yiğit Hunce, S., Soyer, E., Akgiray, Ö. On the backwash expansion of graded filter media. *Powder Technology*. 333, 262-268.
- 3. Soyer, E., Yiğit Hunce, S., Akgiray, Ö. (2017) Characterization of apricot stone shells as a rapid filter medium. *Desalination and Water Treatment*. 93, 318-323.
- 4. Hunce, S.Y., Soyer, E., Akgiray, Ö. (2016) Characterization of granular materials with internal pores for hydraulic calculations involving fixed and fluidized beds. *Industrial and Engineering Chemistry Research*. 55(31), 8636-8651.
- 5. Soyer, E. (2016) Performance comparison of granular media filter beds. *Desalination and Water Treatment*. 57(52), 57(52), 24867-24881.
- 6. De Lannoy, C.F., Soyer, E., Wiesner, M.R. (2013) Optimizing carbon nanotube-reinforced polysulfone ultrafiltration membranes through carboxylic acid functionalization. *Journal of Membrane Science*. 447, 395-402
- 7. Soyer, E., Akgiray, Ö., Eldem, N.Ö., Saatçı, A. (2012) On the use of crushed recycled glass instead of silica sand in dual-media filters. *Clean Soil, Air, Water.* 41(4), 325-332.
- 8. Erbil, A.Ç., Soyer, E., Beler-Baykal, B. (2011) Ammonium ion removal with a natural zeolite in monodispersed and segregated fluidized beds. *Industrial and Engineering Chemistry Research*. 50(10), 6391-6403.
- 9. Soyer, E., Akgiray, Ö., Eldem, N.Ö., Saatçı, A. (2010) Crushed recycled glass as a filter medium and comparison with silica sand. *Clean Soil, Air, Water*. 38(10), 927-935.
- 10. Soyer, E., Erdim, E., Taşıyıcı, S., Koyuncu, İ. (2009) Natural and modified zeolite utilization in submerged membrane reactor for potable water treatment. *Desalination and Water Treatment*. 9, 201-210.
- 11. Erdim, E., Soyer, E., Taşıyıcı, S., Koyuncu, İ. (2009) Hybrid photocatalysis/submerged microfiltration membrane system for drinking water treatment. *Desalination and Water Treatment*. 9, 165-174.
- 12. Soyer, E., Akgiray, Ö. (2009) A new simple equation for the prediction of filter expansion during backwashing. *Journal of Water Supply: Research and Technology AQUA*. 58(5), 336-345.
- 13. Akgiray, Ö., Soyer, E. (2006) An evaluation of expansion equations for fluidized solid-liquid systems. *Journal of Water Supply: Research and Technology AQUA*. 55(7-8), 517-526.
- 14. Yükselen, M.A., Gregory, J., Soyer, E. (2006) Formation and breakage of flocs using dual polymers. *Water Science and Technology*. 53(7), 217-223.
- 15. Eldem, N.Ö., Öztürk, İ., Soyer, E., Çallı, B., Akgiray, Ö. (2004) Ammonia and pH inhibition in anaerobic treatment of wastewaters, Part I: Experimental. *Journal of Environmental Science & Health, Part A.* 39(9), 2405-2420.

- 16. Eldem, N.Ö., Akgiray, Ö., Özturk, İ., Soyer, E., Çallı, B. (2004) Ammonia and pH inhibition in anaerobic treatment of wastewaters, Part II: Model development. Journal *of Environmental Science & Health, Part A*. 39(9), 2421-2435.
- 17. Yüksel, E., Akgiray, Ö., Soyer, E. (2003) Direct filtration with preozonation for small water treatment systems. *Water Science and Technology*. 48(11-12), 473-479.
- 18. Akgiray, Ö., Yüksel, E., Soyer, E. (2004) Prediction of filter expansion during backwashing. *Water Science and Technology: Water Supply*. 4(5-6), 131-138.

## Uluslararası Hakemli Konferanslarda Bildiriler

- 1. Zolfagharian, P., Arslan, G., Yigit-Hunce, S., Soyer, E. (2018) Removal of Dissolved Organics from Water: Effect of Calcium Carbonate Particles on Membrane Fouling. *10<sup>th</sup> Eastern European Young Water Professionals Conference*, 7-12 May 2018, Zagreb, Croatia.
- 2. Zolfagharian, P., Arslan, G., Yigit-Hunce, S., Soyer, E. (2018) Preparation of Calcium Carbonate Nanoparticles: Adsorption and Desorption Behavior of Organic Matter. *3<sup>rd</sup> EWaS (Efficient Water Systems) International Conference*, 27-30 June 2018, Lefkada, Greece.
- 3. Arslan, G., Soyer, E. (2017) Ammonium Ion Exchange in Fluidized Bed Reactors: Effects of Expansion Ratio and Layer Composition. *9th Eastern European Young Water Professionals Conference*, Budapest, Hungary, 23-27 May 2017.
- 4. Haciosmanoğlu, G. G., Yücesoy, Z., Soyer, E., Genç, S., Can, Z. S., Erdim, E. (2017) Removal of Industrial Xenoestrogens by using Zero Valent Iron Nanoparticles. *International Conference on Civil and Environmental Engineering*, Nevşehir, Turkey, 8-10 May 2017.
- 5. Kaplan, Ö., Soyer, E., Akgiray, Ö. (2017) An Experimental Investigation of Wall Effects in Liquid-Solid Fluidization. *IWA-PPFW2017*, 2<sup>nd</sup> *IWA Regional Symposium on Water, Wastewater and Environment*, 22-24 March, Izmir.
- 6. Soyer, E., Yiğit Hunce, S., Akgiray, Ö. (2017) Use of Filterability Index in Granular Filtration: Effect of Filter Medium & Pretreatment Conditions. *IWA-PPFW2017*, 2<sup>nd</sup> *IWA Regional Symposium on Water, Wastewater and Environment*, 22-24 March, Izmir.
- 7. Yiğit Hunce, S., Soyer, E., Akgiray, Ö. (2017) On the Backwash Expansion of Non-Uniform and Non-Spherical Filter Media. *IWA-PPFW2017*, 2<sup>nd</sup> *IWA Regional Symposium on Water, Wastewater and Environment*, 22-24 March, Izmir.
- 8. Soyer, E., Hunce, S.Y., Akgiray, Ö. (2016) Preparation and Characterization of Apricot Stone Shells for Rapid Filters. *R&R 2016, 3<sup>rd</sup> International Conference on Recycling and Reuse*, 28-30 September 2016, Istanbul
- 9. Giresunlu, E. Soyer, E., Baykal, B.B. (2016) Physicochemical treatment of light grey water: An experimental study using membrane filtration. *13th IWA Specialist Conference on Small Water and Wastewater Systems & 5th IWA Specialist Conference on Resources-Oriented Sanitation*, Athens, Greece. 14-16 September 2016
- 10. Yigit Hunce, S., Soyer, E., Akgiray, Ö. (2015) Characterization of Natural Zeolite for Granular-Bed Filters. *International Porous and Powder Materials Symposium and Exhibition. PPM2015*, İzmir, Turkey. 15-18 September 2015, pp 294-298.
- 11. Arslan, G., Soyer, E. (2015) Ion Exchange Assisted Membrane Filtration using Clinoptilolite Powders. *International Porous and Powder Materials Symposium and Exhibition. PPM2015*, İzmir, Turkey. 15-18 September 2015, pp 299-302.
- 12. Cerrah, B.M., Soyer, E. (2014) Preparation and Characterization of Antifouling TiO2 Polysulfone Ultrafiltration Membranes. . 10<sup>th</sup> Inernational Congress on Membranes and Membrane Processes (ICOM 2014), Suzhou, China, July 20-25, 2014
- 13. Eren, K., Cerrah, B.M., Soyer, E. (2014) Preparation of Ag Nanoparticle Composite Ultrafiltration Membranes: Characterization of Ag Release. *10<sup>th</sup> Inernational Congress on Membranes and Membrane Processes (ICOM 2014)*, Suzhou, China, July 20-25, 2014
- 14. Soyer, E., Yiğit Hunce, S., Yılmaz, Z., Babaoğlu, C., Ülkü, Z.M., Akgiray, Ö. (2014) Recycled Material in Water Filtration: The Effect of Media Grain Shape. 2<sup>nd</sup> International Conference on Recycling & Reuse (R&R 2014), Istanbul, Turkey, 4-6 June, 2014

- 15. Yiğit Hunce, S., Soyer, E., Akgiray, Ö. (2014) Particle Characterization of Crushed Recycled Glass. *2<sup>nd</sup> International Conference on Recycling & Reuse (R&R 2014)*, Istanbul, Turkey, 4-6 June, 2014
- 16. Erbil, A.Ç., Soyer, E., Khedmati, M. (2014) Ammonium Recovery by Means of a Natural Zeolite in Fluidized Beds, *2<sup>nd</sup> International Conference on Environmental Science and Technology, ICOEST 2014*, Side Antalya, May 14-17, 2014.
- 17. Soyer, E., Eren, K. (2013) Fabrication of Silver Embedded Polymeric Membranes for Water and Wastewater Treatment, 6<sup>th</sup> Membrane Conference of Vysegrad Countries (PERMEA 2013), Warsaw-Poland, Sep. 15-19, 2013.
- 18. Eren, K., Soyer, E. (2013) Silver Nanoparticle Embedded Ultrafiltration Membranes: Fouling Characteristics and Backwashing Behaviours. *International Conference on Application of Nanotechnology in Membranes for Water Treatment*, Izmir, Turkey, 08-10 Oct 2013.
- 19. Soyer, E. (2012) Drinking Water Treatment Technology, *International Workshop on Water Quality and Quantity Assessment*, October 16-18, 2012, Islamabad, Pakistan
- 20. Soyer, E., Sarıkaya, H.Z. (2011) A study on bromate formation potential during ozonation of Buyukcekmece water. *4th IWA-ASPIRE Conference and Exhibition: Toward Sustainable Water Supply and Recycling Systems*, 2-6 October 2011, Tokyo, Japan
- 21. Soyer, E., Badireddy, A.R., Wiesner, M.R. (2011) Preparation and characterization of silver nanoparticle composite ultrafiltration membranes: Impact of cleaning agents and antibacterial efficacy. *AWWA Membrane Technology Conference*, 28-31 March 2011, California, USA
- 22. Erbil, A.Ç., Soyer, E., Beler-Baykal, B. (2009) A comparative study of ammonia removal in fixed and fluidized beds. *Nutrient Management in Wastewater Treatment Processes, 2<sup>nd</sup> IWA Specialized Conference,* 6-9 September 2009, Krakow, Poland, pp. 721-730
- 23. Soyer, E., Erdim, E., Taşıyıcı, S., Koyuncu, İ. (2009) Decomposition of NOM by ultrasonic irradiation in a submerged membrane system. 5<sup>th</sup> IWA Specialized Membrane Technology Conference for Water and Wastewater Treatment, 1-3 September 2009 Beijing, P.R. China
- 24. Soyer, E., Erdim, E., Taşıyıcı, S., Koyuncu, İ. (2009) Pre-adsorption of NOM in a submerged membrane-adsorption hybrid system for potable water treatment. 5<sup>th</sup> IWA Specialized Membrane Technology Conference for Water and Wastewater Treatment, 1-3 September 2009 Beijing, P.R. China
- 25. Erdim, E., Soyer, E., Taşıyıcı, S., Koyuncu, İ. (2008) Assessment of continuous and intermittent application of UV/TiO<sub>2</sub> in hybrid photocatalysis/submerged membrane system. *Conference on Membranes in Drinking Water Production and Waste Water Treatment*, 20-24 October 2008, Toulouse, France
- 26. Soyer, E., Erdim, E., Taşıyıcı, S., Koyuncu, İ. (2008) Utilization of modified natural zeolite in submerged membrane reactors for potable water treatment. *Conference on Membranes in Drinking Water Production and Waste Water Treatment*, 20-24 October 2008, Toulouse, France
- 27. Koyuncu, İ., Demiral, N., Erdim, E., Soyer, E., Arslan, A. (2008) Reuse of segregated textile effluents by membrane technologies. *IWA Regional Conference on Membrane Technologies in Water and Waste Water Treatment*, 2-4 June 2008, Moscow, Russia
- 28. Çakmakcı, M., Uyak, V., Öztürk, İ., Aydın, A.F., Soyer, E., Akça, L. (2007) The dimension and significance of water losses in Turkey. *IWA Specialist Conference on Water Loss*, Bucharest, Romania, 23-26 September 2007, pp. 464-473
- 29. Yükselen, M.A., Gregory, J., Soyer, E. (2005) Formation and breakage of flocs using dual polymers. *IWA International Conference on Particle Separation*, Seoul, S. Korea, 01-03 June 2005, pp. 593-600
- 30. Soyer, E., Akgiray, Ö. (2005) Expansion of non-spherical media during fluidization. *IWA International Conference on Particle Separation*, Seoul, S. Korea, 01-03 June 2005, pp. 579-586.
- 31. Akgiray, Ö., Soyer, E., Yüksel, E. (2004) Prediction of filter expansion during backwashing. *IWA 4th World Water Congress*, Marrakech, Morocco, 19-24 September 2004
- 32. Eldem, N.Ö., Öztürk, İ., Soyer, E., Çallı, B., Mertoğlu, B., Akgiray, Ö. (2004) Ammonia and pH inhibition in anaerobic treatment. *10<sup>th</sup> World Congress on Anaerobic Digestion (AD10-2004)*, Montreal, Canada, 29 August 2 September 2004, pp. 306-311

- 33. Yüksel, E., Akgiray, Ö., Soyer, E. (2002) Direct filtration with preozonation for small water treatment systems. 5th Specialized Conference on Small Water and Wastewater Treatment Systems, Istanbul, Turkey, 24-26 September 2002, pp. 969-976
- 34. Özturk, İ., Eroğlu, V. Güven, B., Soyer, E., Eldem, N.Ö. (2002) Control of mussels in water intake systems. *2<sup>nd</sup> World Engineering Congress*, 22-25 July, Sarawak, Malaysia.
- 35. Eroğlu, V., Sarıkaya, H.Z., Öztürk, İ., Yüksel, E., Soyer, E. (2002) Water management in İstanbul metropolitan area, integrated water management: the key to sustainable water resources. 3<sup>rd</sup> International Conference, Water Supply & Sewerage Corporation of Athens, 21-22 March 2002 Athens, Greece, pp. 39-50