

## CURRICULUM VITAE

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### Education

**B.Sc :**Environmental Engineering, Kocaeli University, Kocaeli, 2012

**M.Sc :**Environmental Engineering, Marmara University, İstanbul, 2016

**PhD :**Environmental Engineering, Marmara University, İstanbul, 2016-

### B.Sc Thesis

“Waste Resources and Characteristics of Umuttepe Campus and Suggestions to Solve Waste Problem”, Advisor: Associated Prof. Aykan KARADEMİR

### M.Sc Thesis

“Removal of ammonia from raw and digested chicken manure”, Advisor: Prof. Dr. Barış ÇALLI

### Professional Experience

Research Assistant Bartın University, Bartın, Turkey, 2013-2014

Research Assistant Marmara University, Istanbul, Turkey, 2014-

### Projects

Yüksek Azot İçeren Organik Atıklardan Biyogaz Üretiminde İz Element İlavesi ve Amonyak Uzaklaştırma İşleminin Etkileri, Program Kodu: 1001, Proje No: 113Y333-TÜBİTAK (2014 - 2017)

### Publications

**Sürmeli, R. Ö.,** Bayrakdar, A., & Çalli, B. (2017). Removal and recovery of ammonia from chicken manure. *Water Science and Technology*, wst2017116.

Bayrakdar, A., Molaey, R., **Sürmeli, R. Ö.,** Sahinkaya, E., & Çalli, B. (2017). Biogas production from chicken manure: Co-digestion with spent poppy straw. *International Biodeterioration & Biodegradation*, 119, 205-210.

**Sürmeli, R.Ö.**, Bayrakdar, A., Molaey, R., Çalli, B. Effect of Sulfide on Anaerobic Digestion of Chicken Manure at High Ammonia Concentrations. Waste and Biomass Valorization (Under revision).

Molaey, R., Bayrakdar, A., **Sürmeli, R.Ö.**, Çalli, B. Biogas Production via Anaerobic Mono-Digestion of Chicken Manure: Influence of Selenium Supplementation in Mitigating Ammonia Inhibition (Submitted).

Bayrakdar, A., **Sürmeli, R. Ö.**, Çalli, B. Dry Anaerobic Digestion of Chicken Manure with Membrane Separation of Ammonia (Submitted).

Molaey, R., Bayrakdar, A., **Sürmeli, R.Ö.**, Çalli B. Influence of trace elements in Anaerobic Mono-digestion of Chicken Manure: Linking process to microbial population (Submitted).

### **Book Chapters**

**Sürmeli, R.Ö.** (2016) "Environmental and Economic Analysis of a Rainwater Harvesting System at Marmara University." Engineering Approaches on Sustainability, 151-157.

### **Conference Proceedings**

**Sürmeli, R.Ö.**, Bayrakdar A., Çalli B. (2017) air Drying of Dewatered Biogas Digestate and the use of Dried Product as Bulking Agent. 5th International Conference on Sustainable Solid Waste Management, Athens, Greece. (Oral presentation)

Bayrakdar A., Molaey R., **Sürmeli, R.Ö.**, Çalli B. (2017) Bio-methane Potential of Tannery wastes. 5th International Conference on Sustainable Solid Waste Management, Athens, Greece. (Poster presentation)

**Sürmeli, R. Ö.**, Bayrakdar A., Molaey R., Çalli B. (2017) Effect of sulfide on anaerobic digestion of chicken manure at high ammonia concentrations. 1st International ABWET Conference : Waste-to-bioenergy: Applications in Urban areas, Paris. (Oral presentation)

**Sürmeli, R.Ö.**, (2016) Vermicomposting System for A Sustainable Waste Management at Marmara University. International Sustainability Congress 2016, December 1-3, İstanbul, Turkey. (Oral presentation)

**Sürmeli, R.Ö.**, (2016) Environmental and Economic Analysis of A Rainwater Harvesting System at Marmara University. International Sustainability Congress 2016, December 1-3, İstanbul, Turkey. (Oral presentation)

Bayrakdar A., **Sürmeli, R.Ö.**, Calli B. (2016) Mono Digestion of Chicken Manure. 3rd International Conference of Recycling and Reuse, (R&R, 2016) 28-30 Eylül 2016. (Oral presentation)

**Sürmeli, R.Ö.**, Bayrakdar A., Calli B. (2016) Separation of Ammonia from Anaerobically Digested Chicken Manure via PDMS Membrane Contactor. 3rd International

Conference of Recycling and Reuse, (R&R, 2016) 28-30 Eylül 2016. (Oral presentation)

**Sürmeli, R. Ö.**, Bayrakdar, A., Molaey, R. and Çalli, B. (2015) Removal and Recovery of Ammonia from Chicken Manure: Improving Biomethane Potential. IWA 7th Eastern European Young WATER Professionals Conference, Belgrade, Serbia, Proceedings. (Oral presentation)

**Sürmeli, R. Ö.**, Bayrakdar, A., Molaey, R. and Çalli, B. (2015) Ammonia Removal from Chicken Manure. International Conference on Civil and Environmental Engineering, Cappadocia, Turkey, Proceedings. (Poster presentation)

Molaey, R., Bayrakdar, A., **Sürmeli, R. Ö.** and Çalli, B. (2015) Effect of Trace Metal Supplementation on Anaerobic Digestion of Chicken Manure. International Conference on Civil and Environmental Engineering, Cappadocia, Turkey, Proceedings. (Oral presentation)

Molaey, R., **Sürmeli, R. Ö.**, Bayrakdar, A. and Çalli, B. (2014) Biogas Production from chicken manure: co-digestion with poppy straw. Fifth International Symposium on Energy from Biomass and Waste Proceedings, Italy. (Poster presentation)