

Lect. SELDA YİĞİT HUNCE

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: HJZ-2848-2023

ScopusID: 36170133500

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Biography

Dr. Selda Yiğit Hunce received her Ph.D. in Environmental Engineering at Marmara University, Turkey in 2017. She was awarded a TUBITAK Postdoctoral Scholarship and joined a research project in the Centre for Applied Soil Science and Biology of the Segura (CEBAS), of the Spanish National Research Council (CSIC) on energy recovery from biomass in 2017. She worked as a Senior Environmental Technologies Engineer in an International EPC company between 2019-2022. Currently, she is a lecturer at the Environmental Engineering Department of Marmara University. Her current research interests are granular filtration, solid-liquid fluidization, phytoremediation, and energy recovery from phytoremediation plants and agricultural residues.

Education Information

Doctorate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Department of Environmental Engineering (Eng), Turkey 2010 - 2017

Postgraduate, Marmara University, Faculty of Engineering, Environmental Engineering, Turkey 2008 - 2010

Undergraduate, Marmara University, Faculty of Engineering, Environmental Engineering, Turkey 2003 - 2008

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Filter Backwash Hydraulics, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Department of Environmental Engineering (Eng), 2017

Postgraduate, Treatment alternatives for reverse osmosis concentrate of landfill leachate, Marmara University, Faculty of Engineering, Environmental Engineering, 2010

Research Areas

Academic Titles / Tasks

Lecturer PhD, Marmara University, Faculty of Engineering, Environmental Engineering, 2022 - Continues

Research Assistant, İstanbul University-Cerrahpaşa, Faculty Of Engineering, Department Of Environmental Engineering, 2014 - 2017

Research Assistant, Bahcesehir University, Faculty Of Engineering, Department Of Environmental Engineering, 2008 - 2010

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Selection of Mediterranean plants biomass for the composting of pig slurry solids based on the heat production during aerobic degradation**
Hunce S., Clemente R., Bernal M. P.
WASTE MANAGEMENT, vol.104, pp.1-8, 2020 (SCI-Expanded)
- II. **Energy production potential of phytoremediation plant biomass: Helianthus annuus and Silybum marianum**
Hunce S., Clemente R., Bernal M. P.
INDUSTRIAL CROPS AND PRODUCTS, vol.135, pp.206-216, 2019 (SCI-Expanded)
- III. **Use of filterability index in granular filtration: effect of filter medium type, size and shape**
Hunce S., Soyer E., Akgiray Ö.
WATER SUPPLY, vol.19, no.2, pp.382-391, 2019 (SCI-Expanded)
- IV. **Ecological Footprint Calculation**
ELMASLAR ÖZBAŞ E., Hunce S., ÖZCAN H. K., ÖNGEN A.
RECYCLING AND REUSE APPROACHES FOR BETTER SUSTAINABILITY, pp.179-186, 2019 (SCI-Expanded)
- V. **An Assessment of Pyrolysis Process for the Treatment of Agricultural and Forest Wastes**
ÖNGEN A., Karabag N., Hunce S., ÖZCAN H. K., ELMASLAR ÖZBAŞ E., AYDIN S.
RECYCLING AND REUSE APPROACHES FOR BETTER SUSTAINABILITY, pp.97-110, 2019 (SCI-Expanded)
- VI. **On the backwash expansion of graded filter media**
Hunce S., Soyer E., Akgiray Ö.
POWDER TECHNOLOGY, vol.333, pp.262-268, 2018 (SCI-Expanded)
- VII. **Characterization of apricot stone shells as a rapid filter medium**
Soyer E., Hunce S., Akgiray Ö.
DESALINATION AND WATER TREATMENT, vol.93, pp.318-323, 2017 (SCI-Expanded)
- VIII. **Characterization of Granular Materials with Internal Pores for Hydraulic Calculations Involving Fixed and Fluidized Beds**
Hunce S., Soyer E., Akgiray Ö.
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.55, no.31, pp.8636-8651, 2016 (SCI-Expanded)
- IX. **Solidification/stabilization of landfill leachate concentrate using different aggregate materials**
Hunce S., AKGÜL D., DEMİR G., MERTOĞLU B.
WASTE MANAGEMENT, vol.32, no.7, pp.1394-1400, 2012 (SCI-Expanded)
- X. **Quantification of Atmospheric Particle Number Concentration for Selected Children Playgrounds: A Case Study in Istanbul**
Borucu G., Ozdemir H., Demir G., Yigit S., Ozcan H. K.
JOURNAL OF RESIDUALS SCIENCE & TECHNOLOGY, vol.7, no.3, pp.147-152, 2010 (SCI-Expanded)
- XI. **Elemental Concentrations of Atmospheric Aerosols and the Soil Samples on the Selected Playgrounds in Istanbul**
Demir G., Yigit S., Ozdemir H., Borucu G., SARAL A.

JOURNAL OF RESIDUALS SCIENCE & TECHNOLOGY, vol.7, no.2, pp.123-130, 2010 (SCI-Expanded)

- XII. **Examining the Particulate Matter (PM2.5 ve PM10) Pollution on the Playgrounds in Istanbul**
Ozdemir H., Borucu G., Demir G., Yigit S., Ak N.
EKOLOJİ, vol.19, no.77, pp.72-79, 2010 (SCI-Expanded)

Articles Published in Other Journals

- I. **OBSERVATION OF PLANT DEVELOPMENT WITH COMPOST, LIME AND CHEMICAL FERTILIZER SUPPORT IN ACIDIC SOIL WITH HIGH METAL CONTENT**
ELMASLAR ÖZBAŞ E., ÖNGEN A., ÖZCAN H. K., YİĞİT HUNCE S.
International Journal of Agriculture, Environment and Food Sciences, vol.3, no.1, pp.16-21, 2019 (Peer-Reviewed Journal)
- II. **Investigation of variation of the recyclable solid waste amounts in Küçükçekmece district of Istanbul**
Elmaslar Özbaş E., Yiğit Hunce S., Özcan H. K., Öngen A., Gazi S.
Environmental Research & Technology, vol.1, no.3, pp.35-40, 2018 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Su Arıtma Tesisleri İşletimi**
Saatçi A. M., AKGİRAY Ö., SOYER E., ERDİM E., YİĞİT HUNCE S.
Türkiye Belediyeler Birliği, Ankara, 2016

Refereed Congress / Symposium Publications in Proceedings

- I. **Preparation of Calcium Carbonate Nanoparticles: Adsorption and Desorption Behaviour of Organic Matter**
Zolfagharian P., ARSLAN G., YİĞİT HUNCE S., SOYER E.
3rd EWaS International Conference on "Insights on Water-Energy-Food-Nexus", Greece, 27 - 30 June 2018, vol.2, pp.655
- II. **Removal of Dissolved Organics from Water: Effect of Calcium Carbonate Particles on Membrane Fouling. 10th Eastern European Young Water Professionals Conference**
Arslan G., Soyer E., Zolfagharian P., Yiğit Hunce S.
10th Eastern European Young Water Professionals Conference, Zagreb, Croatia, 7 - 12 May 2018, pp.187-188
- III. **Use of Filterability Index in Granular Filtration: Effect of Filter Medium Pretreatment Conditions**
SOYER E., YİĞİT HUNCE S., AKGİRAY Ö.
IWA-PPFW2017, 2nd IWA Regional Symposium on Water, Wastewater and Environment, İzmir, Turkey, 22 - 24 March 2017
- IV. **On the Backwash Expansion of Non-Uniform and Non-Spherical Filter Media**
YİĞİT HUNCE S., SOYER E., AKGİRAY Ö.
IWA-PPFW2017, 2nd IWA Regional Symposium on Water, Wastewater and Environment, İzmir, Turkey, 22 - 24 March 2017
- V. **Investigation of Variation of the Recyclable Solid Waste Amounts in Küçükçekmece District of Istanbul**
ELMASLAR ÖZBAŞ E., YİĞİT HUNCE S., ÖZCAN H. K., ÖNGEN A., GAZİ S.
3rd International Conference on Recycling and Reuse, R&R 2014, 28 - 30 September 2016, pp.224-229
- VI. **Investigation of the effect on solution toxicity of removal of methylene blue from aqueous solutions**
ÖZCAN H. K., SÖNMEZ V. Z., BALÇIK B., YİĞİT HUNCE S., ELMASLAR ÖZBAŞ E., SİVRİ N.
3rd International Conference on Recycling and Reuse, 28 - 30 September 2016

VII. Ecological Footprint Calculation Study

ELMASLAR ÖZBAŞ E., YİĞİT HUNCE S., ÖZCAN H. K., ÖNGEN A.

3rd International Conference on Recycling and Reuse, 28 - 30 September 2016

VIII. H₂ and CH₄ rich Gas Production from a Domestic Wastewater Treatment Sludge

YİĞİT HUNCE S., KAYA E., ÖNGEN A., ÖZCAN H. K., SELÇUK H.

3rd International Conference on Recycling and Reuse, 28 - 30 September 2016

IX. Preparation and Characterization of Apricot Stone Shells for Rapid Filters

SOYER E., YİĞİT HUNCE S., AKGİRAY Ö.

3rd International Conference on Recycling and Reuse, 28 - 30 September 2016, pp.175-176

X. Küçükçekmece İlçesi Sınırları İçerisinde Oluşan Evsel ve Endüstriyel Atık Miktarlarının İncelenmesi

YİĞİT HUNCE S., ELMASLAR ÖZBAŞ E., ÖZCAN H. K., ÖNGEN A., Gazi S.

8. Ulusal Katı Yönetimi Kongresi, UKAY'2016, Kastamonu, Turkey, 11 - 14 May 2016

XI. Recycled Material In Water Filtration The Effect Of Media Grain Shape

SOYER E., YİĞİT HUNCE S., Yılmaz Z., Babaoğlu C., Ülkü Z. M., AKGİRAY Ö.

2nd International Conference on Recycling and Reuse, 4 - 06 June 2014

XII. Particle Characterization Of Crushed Recycled Glass

YİĞİT HUNCE S., SOYER E., AKGİRAY Ö.

2nd International Conference on Recycling and Reuse, 4 - 06 June 2014

XIII. Küresel İklim Değişikliği Ve Su Kaynakları Üzerine Etkisi Türkiye Örneği

Çoban A., YİĞİT HUNCE S., DEMİR G., AK N.

II. Türkiye İklim Değişikliği Kongresi, TİKDEK, Turkey, 16 - 18 June 2010

XIV. Zeolit dolgulu filtrelerde Anammox kültürünün yetiştirilmesi

BAKIRCI K., YİĞİT HUNCE S., Yılmaz A. G., MERTOĞLU B.

ürkiye'de Çevre Kirliliği Öncelikleri Sempozyumu, İzmit, Turkey, 28 May 2009, pp.378-382

Scientific Refereeing

DESALINATION AND WATER TREATMENT, National Scientific Refreed Journal, February 2018

Metrics

Publication: 30

Citation (WoS): 114

Citation (Scopus): 147

H-Index (WoS): 6

H-Index (Scopus): 6

Congress and Symposium Activities

3rd International Conference on Recycling and Reuse, Attendee, İstanbul, Turkey, 2016

Ulusal Katı Atık Yönetimi Kongresi (UKAY 2016), Attendee, Kastamonu, Turkey, 2016

International Porous and Powder Materials Symposium and Exhibition, Attendee, İzmir, Turkey, 2015

2nd International Conference on Recycling and Reuse, Attendee, İstanbul, Turkey, 2014

TÜRKAY 2009 Türkiye'de Katı Atık Yönetimi Sempozyumu, Attendee, İstanbul, Turkey, 2009

Scholarships

2219-Yurt Dışı Doktora Sonrası Araştırma Burs Programı, TÜBİTAK, 2017 - 2018