

Curriculum Vitae - Huseyin OZDEMIR (PhD)

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EDUCATION AND ACADEMIC TITLES

B.S.	Environmental Engineering	Marmara University, Turkey	2002
M.S.	Environmental Engineering	Istanbul University, Turkey	2006
Ph.D.	Environmental Engineering	Marmara University, Turkey	2013
Postdoc	Environmental Science, Atmospheric Modelling Section	Aarhus University, Denmark	2019
Lecturer	Climate and Marine Sciences	Istanbul Technical University	2022

- Postdoctoral Research: Estimation of the Impact of Air Pollution on Human Health and Economy in Turkey using the EVA System
- Ph.D. Thesis: "Investigation of the Impact of Urbanization on Climate and Air Quality: A Case Study Over Turkey"
- M.S. Thesis: "Modelling Tropospheric Ozone Concentration in the Atmosphere of Istanbul by Artificial Neural Network Methods"

Professional Experience

Corporation	Department/Unit	Job Type	Job Period
Istanbul Technical University	Istanbul Technical University, Eurasia Institute of Earth Sciences, Climate and Marine Sciences	Lecturer	2022 - ...
AESA	EU Project: Improving Air Quality in Cities in Turkey and Raising Public Awareness Project	Team Leader	2019 - 2022
Aarhus University, Denmark	Environmental Sciences, Department of Atmospheric Modeling	Researcher	2018 – 2019
Bahçeşehir University, Istanbul, Turkey	Department of Environmental Engineering	Assistant Prof.	2013- 2016
		Lecturer	2010 - 2013
		Research Assistant	2007 - 2010

PUBLICATIONS

Peer-reviewed Journal Articles

- Seda Bahar Turhan, Ilker Oruc, **Huseyin Ozdemir**, 2021. Impact of Heating Season on the Soil Pollution in Kırklareli Province of Turkey. *Environmental Monitoring and Assessment* 193, 209.
<https://doi.org/10.1007/s10661-021-09002-4>
- Rosa M. Flores, Elif Mertoğlu, **Hüseyin Özdemir**, Bülent O. Akkoyunlu, Göksel Demir, Alper Ünal, Mete Tayanç, 2020. A high-time resolution study of PM_{2.5}, organic carbon, and elemental carbon at an urban traffic site in Istanbul. *Atmospheric Environment*, 223, 117241.
- Rosa M. Flores, **Hüseyin Özdemir**, Bülent O. Akkoyunlu, Alper Ünal, Mete Tayanç, 2020. Seasonal variation of carbonaceous PM_{2.5} in an Istanbul traffic site. *Atmospheric Pollution Research*, 11, 2110-2118.
- S. Levent Kuzu, Elif Yavuz, Ezgi Akyüz, Arslan Saral, Bülent O. Akkoyunlu, **Hüseyin Özdemir**, Göksel Demir, Alper Ünal, 2020. Black carbon and size-segregated elemental carbon, organic carbon compositions in a megacity: a case study for Istanbul. *Air Quality, Atmosphere & Health*, 13, 827-837.
- Huseyin Ozdemir**, 2019. Mitigation impact of roadside trees on fine particle pollution. *Science of the Total Environment*, 659, 1176-1185.
- Summak G., **Ozdemir H.**, Oruc I., Kuzu L., Saral A., Demir G., 2018. Statistical evaluation and predicting the possible sources of particulate matter in a Mediterranean metropolitan city. *Global Nest Journal*, 20(2), 173-180.
- Huseyin Ozdemir**, Luca Pozzoli, Tayfun Kindap, Goksel Demir, Bulent Mertoglu, Nikos Mihalopoulos, Christina Theodosi, Maria Kanakidou, Ulas Im, Alper Unal, 2014. Spatial and temporal analysis of black carbon aerosols in Istanbul megacity. *Science of the Total Environment*, 473, 451-458.
- Huseyin Ozdemir**, Alper Unal, Tayfun Kindap, Ufuk Utku Turuncoglu, Zeynep Okay Durmusoglu, Maudood Khan, Mete Tayanc, Mehmet Karaca, 2012. Quantification of the urban heat island under a changing climate over Anatolian Peninsula. *Theoretical and Applied Climatology*, 108: 31-38, DOI: 10.1007/s00704-011-0515-8.
- Huseyin Ozdemir**, Bulent Mertoglu, Goksel Demir, Ali Deniz, Huseyin Toros, 2012. Case study of PM pollution in playgrounds in Istanbul. *Theoretical and Applied Climatology* 108: 553-562, DOI: 10.1007/s00704-011-0543-4.
- Sakar, C.O., Demir G., Kursun, O., **Ozdemir, H.**, Altay, G., Yalcin, S., 2011. Feature Selection for the Prediction of Tropospheric Ozone Concentration Using a Wrapper Method. *Intelligent Automation and Soft Computing* Vol. 17, No. 4, pp. 403-413.
- G. Demir, **H. Ozdemir**, H.K. Ozcan, O.N. Ucan, C. Bayat, 2010. An Artificial Neural Network-Based Model For Short-Term Predictions of Daily Mean PM₁₀ Concentrations. *Journal of Environmental Protection and Ecology* 11, No:3, 1163-1171.
- Sakar, C.O., Kursun, O., **Ozdemir, H.**, Demir, G., Yalcin, S., 2010. Identifying Effective Variables Using Mutual Information and Building Predictive Models of Sulfur Dioxide Concentration with Support Vector Machines. *Ekoloji* 19, No: 76, 102-112.
- Borucu, G., **Ozdemir, H.**, Demir, G., Yigit, S., Ozcan, H.K., 2010. Quantification of Atmospheric Particle Number Concentration for Selected Children Playgrounds: A Case Study in Istanbul. *Journal of Residuals Science & Technology*, 7, No. 3-July, 147-152.

Demir, G., Yigit, S., **Ozdemir, H.**, Borucu, G., Saral, A., 2010. Elemental Concentrations of Atmospheric Aerosols and the Soil Samples on the Selected Playgrounds in Istanbul. *Journal of Residuals Science & Technology*, 7, No. 2-April, 123-130.

Hüseyin Özdemir, Gülsüm Borucu, Göksel Demir, Selda Yiğit, Namık Ak, 2010. İstanbul'daki Çocuk Oyun Parklarında Partikül Madde (PM_{2.5} ve PM₁₀) Kirliliğinin İncelenmesi. *Ekoloji* 19, No: 77, 72-79.

Ozdemir, H., Demir, G., Altay, G., Albayrak, S. & Bayat, C., 2008. Prediction of Tropospheric Ozone in Istanbul by Employing Artificial Neural Network. *Environmental Engineering Science* 25, 1249-1254.

PROJECTS

Project Title	Type	Job	Date
Improving Air Quality in Cities in Turkey and Raising Public Awareness Project	European Union Project	Team Leader	2019 - 2022
Quantification of the Impact of Air Pollution on Human Health and Economy in Turkey using the EVA Model System	TUBITAK post-doctoral research project	Researcher	2018 - 2019
Development of National Air Pollution Inventory Management System	TUBITAK project with Turkish Ministry of Environment and Urbanization	Researcher	2013 – 2017
Development of Emissions Inventory for the City of Istanbul and Validation via Air Quality Models and Observations”	TUBITAK research project	Scholarship	2011 - 2013
Sources And Composition Of Urban Aerosols: A Case Study In Istanbul	TUBITAK research project	Scholarship	2011 – 2012
Investigation of Air Pollution on Playgrounds in Istanbul	TUBITAK research project	Scholarship	2008 – 2010
Climate Variability in Turkey	TUBITAK research project	Scholarship	2007 – 2009,