

## **Asst. Prof. NUR HANİFE ORAK**

### **Personal Information**

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### **Biography**

Nur H. Orak is an Assistant Professor in the Department of Environmental Engineering at Marmara University. Prior to moving to Turkey Dr. Orak worked as a Postdoctoral Associate at The US Department of Energy-The National Energy Technology Laboratory and Carnegie Mellon University in the Department of Civil and Environmental Engineering, Pittsburgh. Orak is an environmental engineer with a multi-disciplinary research background. Her research interests include environmental statistics, mathematical modeling, environmental risk assessment, decision support, and environmental health.

Orak has a long history of leadership positions with several technical and non-technical NGOs in Turkey and the USA. Currently, she is the chair of the American Society of Civil Engineers-Environmental Water Resources Institute Students and Education Council and a board member of the New Professionals Council and Women-Water Nexus. She is serving as a member of ASCE-[EWRI Congress](#) Steering Committee and as the first international corresponding member of the [ASCE Convention](#).

### **Education Information**

Post Doctorate, U.S. National Energy Technology Laboratory (NETL), United States Of America 2016 - 2017

Post Doctorate, Carnegie Mellon University, School of Engineering, Civil and Environmental Engineering, United States Of America 2016 - 2017

Doctorate, Carnegie Mellon University, School of Engineering, Civil and Environmental Engineering, United States Of America 2012 - 2016

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Environmental Engineering, Turkey 2010 - 2012

Undergraduate, Anadolu University, Faculty Of Business Administration, Department Of Business, Turkey 2006 - 2012

Undergraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Environmental Engineering, Turkey 2005 - 2010

### **Research Areas**

Environmental Impact Assessment, Environmental Modeling, Environmental Risk Assessment, Environmental Health and Safety, Environmental Policies, Environmental Management, Air Pollution and Control

### **Academic Titles / Tasks**

Assistant Professor, Marmara University, Faculty of Engineering, Environmental Engineering, 2020 - Continues

Research Assistant PhD, Duzce University, Faculty Of Engineering, Department Of Environmental Engineering, 2017 - 2020

Research Assistant, Carnegie Mellon University, CIT, Civil and Environmental Engineering, 2012 - 2016

Research Assistant, Istanbul Technical University, 2012 - 2012

## Courses

Numerical Methods, Undergraduate, 2020 - 2021  
Special Topics in Environmental Engineering II, Undergraduate, 2020 - 2021  
Engineering Project II, Undergraduate, 2020 - 2021  
Environmental Engineering Ecology, Undergraduate, 2019 - 2020  
Engineering Project I, Undergraduate, 2019 - 2020

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **The impacts of COVID-19 lockdown on PM10 and SO2 concentrations and association with human mobility across Turkey**  
Orak N. H. , Ozdemir O.  
Environmental Research, vol.21, pp.1-7, 2021 (Journal Indexed in SCI Expanded)
- II. **Identifying and Quantifying Source Contributions of Air Quality Contaminants during Unconventional Shale Gas Extraction**  
Orak N. H. , Reeder M., Pekney N. J.  
Atmospheric Chemistry And Physics, vol.21, pp.1-7, 2021 (Journal Indexed in SCI Expanded)
- III. **Air pollution risk associated with unconventional shale gas development**  
Orak N. H. , Pekney N. J.  
CARBON MANAGEMENT, vol.11, no.6, pp.645-651, 2020 (Journal Indexed in SCI)
- IV. **A Hybrid Bayesian Network Framework for Risk Assessment of Arsenic Exposure and Adverse Reproductive Outcomes**  
Orak N. H.  
ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY, vol.192, 2020 (Journal Indexed in SCI)
- V. **Effect of disinfection processes and anthropogenic pollutants on comparative formation of trihalomethanes and N-nitrosodimethylamine**  
Orak N. H. , Ozsenturk T., Topuz E., Aydın E., Gürel M., Genceli E. A. , Pehlivanoğlu Mantaş E.  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, vol.16, no.8, pp.4083-4090, 2019 (Journal Indexed in SCI)
- VI. **Bayesian network-based framework for exposure-response study design and interpretation**  
Orak N. H. , Small M. J. , Druzdzel M. J.  
ENVIRONMENTAL HEALTH, vol.18, 2019 (Journal Indexed in SCI)
- VII. **Implications of a statistical occurrence model for mixture toxicity estimation**  
Orak N. H. , Small M. J.  
HUMAN AND ECOLOGICAL RISK ASSESSMENT, vol.23, no.3, pp.534-549, 2017 (Journal Indexed in SCI)
- VIII. **VISIBLE AND UV-A LIGHT-INDUCED PHOTOCATALYSIS OF FORMIC AND OXALIC ACIDS WITH S-DOPED, Fe-LOADED TITANIA**  
Ölmez Hancı T., Orak N. H. , Tetik A., Kabdaşlı N. I. , Ohno T., Arslan-Alaton I., Tunay O.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.23, pp.3366-3373, 2014 (Journal Indexed in SCI)

## Books & Book Chapters

- I. **Yaşam Döngüsü Değerlendirmesi: Önemli kararlar için nicel yaklaşımlar**  
Orak N. H.  
Akademisyen , Ankara, 2020

## Refereed Congress / Symposium Publications in Proceedings

**I. A Novel Method for Environmental Risk Assessment: A Case Study of Coarse Particulate Matter and Infant Birth Weight**

Orak N. H.

World Environmental and Water Resources Congress, 7 - 11 June 2021, pp.666-674

**Edit Congress and Symposium Activities**

World Environmental & Water Resources Congress, Invited Speaker, Nevada, United States Of America, 2021

**Citations**

Total Citations (WOS):7

h-index (WOS):2

**Awards**

Orak N. H. , Young Professional Best Paper Award for the Industrial, Government, and Public Services Group, The Air & Waste Management Association'S 110Th Annual Conference & Exhibition , June 2017

Orak N. H. , Graduate Student Best Technical Paper Award, The American Society Of Civil Engineers-World Environmental & Water Resources Congress, May 2016